

# **EXHIBIT 5**



ETSI SMG2                      Source : SAMSUNG  
14-18 December 1998        Agenda item : 4.1(UTRA IPR)  
Espoo, Finland                Title: IPR Licensing Declaration

This declaration is given on December 14, 1998 by Samsung Electronics Corporation("SEC")of Seoul Korea to the European Telecommunications Standards Institute (ETSI) of Sophia Antipolis France.

With regard to the W-CDMA technology being elaborated by ETSI as a standard for the UMTS Terrestrial Radio Access (UTRA) FDD mode, SEC is prepared to grant licenses to its essential IPRs on a fair, reasonable, and non-discriminatory basis in accordance with the terms and conditions set forth in Clause 6.1 of the ETSI IPR Policy.

Yours sincerely

A handwritten signature in black ink, appearing to read "Young Ky Kim", written over a horizontal line.

Young Ky Kim

Director

Information and Communications

**PLAINTIFF'S EXHIBIT NO. 122**

United States District Court  
Northern District of California  
No. 11-CV-01846-LHK (PSG)

Apple Inc. v. Samsung Elecs.

Date Admitted: \_\_\_\_\_ By: \_\_\_\_\_



EUROPEAN TELECOMMUNICATION STANDARDS INSTITUTE

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## IPR INFORMATION STATEMENT AND LICENSING DECLARATION

### IPR Holder/Organisation

Legal Name: **Samsung Electronics Corporation**

### Signatory

Name: Kyong-Joon, Chun

Position: Executive Vice President

Department: **Telecommunication R&D Centre**

Address: **Suwon P.O.BOX 105**

**416 Maetan-3dong, Paldal-gu, Suwon-si Gyeonggi-do, Korea 442-742**

Tel.: **82-31-279-5041**

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E-mail: **xhpark@samsung.com**

### IPR information statement

In accordance with the ETSI IPR Policy, Article 4.1, I hereby inform ETSI that,

with reference to ETSI Standard No. **ETSI TS 100. xxx, ETSI TS 25.xxx, ETSI TS34. xxx (see the exact numbers of ETSI Standards No in ANNEX 2)**

it is my belief that the IPRs listed in Annex 2 are, or are likely to become, Essential IPRs in relation to that Standard.

### IPR licensing declaration

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 2 and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.

The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

The construction, validity and performance of this DECLARATION shall be governed by the laws of France.

Place, Date:

Signature:

2003. 09. 18

Kyong J. Chun

(Signed for and on behalf of the SIGNAT

Please return this form duly signed to:  
ETSI Director General - Karl Heinz Rosenbrock

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| Project       | Company                | Patent title  | Country of registration | ETSI Standard No.<br>(e.g. TS XXX XXX<br>V0.0.0)                                    | Application No.     | Patent No.          | Countries<br>applicable |
|---------------|------------------------|---|-------------------------|---|---------------------|---------------------|-------------------------|
| GSM<br>/3GPP  | Samsung<br>Electronics | VERFAHREN ZUR<br>QUELLENGESTEUERTEN<br>KANALDECODIERUNG DURCH<br>ERWEITERUNG DES VITERBI-<br>ALGORITHMUS                                      | Germany                 | ETSI TS 100 573<br>V8.7.0   | <b>DE 4224214.2</b> | <b>DE 42 24 214</b> | DE                      |
| GSM<br>/3GPP  | Samsung<br>Electronics | PROCEDE DE DECODAGE DE<br>CANAUX AVEC COMMANDE A LA<br>SOURCE PAR ELARGISSEMENT DE<br>L'ALGORITHME DE VITERBI ET<br>UTILISATION DE CE PROCEDE | France                  | ETSI TS 100 573<br>V8.7.0   | 93 09049            | FR 2694647          | FR                      |
| GSM<br>/3GPP  | Samsung<br>Electronics | METHOD FOR SOURCE-<br>CONTROLLED CHANNEL<br>DECODING BY EXPANDING THE<br>VITERBI ALGORITHM  | U.S.A                   | ETSI TS 100 573<br>V8.7.0   | 08/095708           | US 5,511,081        | US                      |
| GSM<br>/3GPP  | Samsung<br>Electronics | VERFAHREN ZUM<br>VERALLGEMEINERN DES VITERBI-<br>ALGORITHMUS UND<br>EINRICHTUNGEN ZUR<br>DURCHFUEHRUNG DES<br>VERFAHRENS                      | Germany                 | ETSI TS 100 573<br>V8.7.0<br>ETSI TS 100 908<br>V8.9.0<br>ETSI TS 100 910<br>V8.9.0 | <b>DE 3910739.6</b> | <b>DE 3910739</b>   | DE                      |
| GSM<br>/3GPP  | Samsung<br>Electronics | METHOD FOR GENERALIZING THE<br>VITERBI ALGORITHM AND DEVICES<br>FOR EXECUTING THE METHOD  | U.S.A.                  | ETSI TS 100 573<br>V8.7.0<br>ETSI TS 100 908<br>V8.9.0<br>ETSI TS 100 910<br>V8.9.0 | 07/504357           | US 5181209          | US                      |
| GSM,<br>/3GPP | Samsung<br>Electronics | METHOD FOR GENERALIZING THE<br>VITERBI ALGORITHM AND DEVICES<br>FOR EXECUTING THE METHOD  | France                  | ETSI TS 100 573<br>V8.7.0<br>ETSI TS 100 908<br>V8.9.0<br>ETSI TS 100 910<br>8.9.0  | 90106375.0          | FR EP 0 391<br>354  | FR                      |

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|              |                        |   |         |  |                      |                     |    |
|--------------|------------------------|---|---------|--|----------------------|---------------------|----|
| GSM<br>/3GPP | Samsung<br>Electronics | METHOD FOR GENERALIZING THE<br>VITERBI ALGORITHM AND DEVICES<br>FOR EXECUTING THE METHOD    | England | ETSI TS 100 573<br>V8.7.0<br>ETSI TS 100 908<br>V8.9.0<br>ETSI TS 100 910<br>8.9.0 | 90106375.0           | GB EP 0 391<br>354  | GB |
| GSM<br>/3GPP | Samsung<br>Electronics | METHOD FOR GENERALIZING<br>THE VITERBI ALGORITHM<br>AND DEVICES FOR<br>EXECUTING THE METHOD | Sweden  | ETSI TS 100 573<br>V8.7.0<br>ETSI TS 100 908<br>V8.9.0<br>ETSI TS 100 910<br>8.9.0 | 90106375.0           | SE EP 0<br>391 354  | SE |
| GSM<br>/3GPP | Samsung<br>Electronics | METHOD AND APPARATUS FOR<br>CORRECTING BITTER ALGORITHM                                     | Japan   | ETSI TS 100 573<br>V8.7.0<br>ETSI TS 100 908<br>V8.9.0<br>ETSI TS 100 910<br>8.9.0 | 02-089006            | JP 2 533 219        | JP |
| GSM<br>/3GPP | Samsung<br>Electronics | METHOD AND ITS DEVICE<br>DEMODULATING GAUSSIAN<br>FILTERED MINIMUM SHIFT KEYING             | KR      | ETSI TS 100 959<br>V8.4.0<br>GSM 05.04 V8.4.0                                      | 1990-0022760         | KR 1995-<br>0003666 | KR |
| GSM<br>/3GPP | Samsung<br>Electronics | METHOD AND APPARATUS FOR<br>DEMODULATING A GMSK SIGNAL                                      | US      | ETSI TS 100 959<br>V8.4.0<br>GSM 05.04 V8.4.0                                      | 723278               | US 5144256          | US |
| GSM<br>/3GPP | Samsung<br>Electronics | GMSK SIGNAL DEMODULATION<br>METHOD AND ITS DEVICE   | JP      | ETSI TS 100 959<br>V8.4.0<br>GSM 05.04 V8.4.0                                      | <b>1991000127959</b> | JP 6021982          | JP |

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| Project | Company             | Patent Title  | Country of Registration | ETSI Standard No.                   | Application No. | Patent No. | Countries applicable |
|---------|---------------------|---|-------------------------|-------------------------------------|-----------------|------------|----------------------|
| 3GPP    | Samsung Electronics | DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM   |                         | TS 25.212                           | 5420            |            | MX                   |
| 3GPP    | Samsung Electronics | tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication |                         | TS 25.211                           | 36375           |            | IN                   |
| 3GPP    | Samsung Electronics | apparatus and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system           |                         | TS 25.213                           | 36675           |            | AU                   |
| 3GPP    | Samsung Electronics | apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system      |                         | TS 25.212                           | 141743          |            | IL                   |
| 3GPP    | Samsung Electronics | method and apparatus for assigning a common packet channel in a cdma communication system   |                         | TS 25.331<br>TS 25.430<br>TS 25.211 | 148656          |            | IL                   |
| 3GPP    | Samsung Electronics | DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM   |                         | TS 25.212                           | 206056          | 6154652    | US                   |
| 3GPP    | Samsung Electronics | DEVICE AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM                                 |                         | TS 25.211                           | 253976          |            | US                   |
| 3GPP    | Samsung Electronics | channel encoding device and method for communication system   |                         | TS 25.212                           | 294658          | 6437714    | US                   |
| 3GPP    | Samsung Electronics | tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication |                         | TS 25.211                           | 365797          | 6529496    | US                   |
| 3GPP    | Samsung Electronics | PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM   |                         | TS 25.211                           | 386062          |            | US                   |
| 3GPP    | Samsung Electronics | an iterative decoder and an iterative decoding method for a communication system  |                         | TS 25.211                           | 475684          |            | US                   |
| 3GPP    | Samsung Electronics | 2-dimensional interleaving apparatus and method   |                         | TS 25.211                           | 543792          |            | US                   |
| 3GPP    | Samsung Electronics | apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system      |                         | TS 25.212                           | 613068          |            | US                   |
| 3GPP    | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |                         | TS 25.331<br>TS 25.430<br>TS 25.211 | 726147          |            | US                   |
| 3GPP    | Samsung Electronics | method and apparatus for controlling a demultiplexer and a multiplexer used for rate  |                         | TS 25.212                           | 801453.1        |            | CN                   |

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|------|---------------------|---|--|-------------------------------------|------------|--------------|----|
|      |                     | matching in a mobile communication system   |  |                                     |            |              |    |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM   |  | TS 25.211                           | 2282431    | 2282431      | CA |
| 3GPP | Samsung Electronics | channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM   |  | TS 25.212                           | 2292568    |              | CA |
| 3GPP | Samsung Electronics | PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM   |  | TS 25.211                           | 2306509    |              | CA |
| 3GPP | Samsung Electronics | 2-dimensional interleaving apparatus and method   |  | TS 25.211                           | 2368027    |              | CA |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |  | TS 25.331<br>TS 25.430<br>TS 25.211 | 2392886    |              | CA |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system |  | TS 25.213                           | 2397428    |              | CA |
| 3GPP | Samsung Electronics | apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system  |  | TS 25.212                           | 20023165   | 20023165.0   | DE |
| 3GPP | Samsung Electronics | APPARATUS AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM  |  | TS 25.211                           | 29924415.6 | 29924415.6   | DE |
| 3GPP | Samsung Electronics | APPARATUS AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM  |  | TS 25.212                           | 87120221   | 120384       | TW |
| 3GPP | Samsung Electronics | METHOD AND APPARATUS FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM  |  | TS 25.212                           | 98811857.2 |              | CN |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM   |  | TS 25.212                           | 98959257.1 |              | EP |
| 3GPP | Samsung Electronics | METHOD AND DEVICE FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM   |  | TS 25.211                           | 99120704   | 2173500      | RU |
| 3GPP | Samsung Electronics | METHOD AND APPARATUS FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM  |  | TS 25.211                           | 99800097.3 |              | CN |
| 3GPP | Samsung Electronics | method and device for channel encoding/decoding FOR COMMUNICATION SYSTEM  |  | TS 25.212                           | 99800575.4 |              | CN |
| 3GPP | Samsung Electronics | tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication   |  | TS 25.211                           | 99801239.4 | ZL99801239.4 | CN |
| 3GPP | Samsung Electronics | an iterative decoder and an iterative decoding method for a communication system  |  | TS 25.211                           | 99815196.3 |              | CN |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM   |  | TS 25.211                           | 99905352.3 |              | EP |

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|      |                     |   |  |                                     |            |         |    |
|------|---------------------|---|--|-------------------------------------|------------|---------|----|
| 3GPP | Samsung Electronics | an iterative decoder and an iterative decoding method for a communication system  |  | TS 25.211                           | 99962545.2 |         | EP |
| 3GPP | Samsung Electronics | tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication   |  | TS 25.211                           | 2000108452 | 2174286 | RU |
| 3GPP | Samsung Electronics | PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM   |  | TS 25.211                           | 2000111515 | 2193277 | RU |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM   |  | TS 25.212                           | 2000114179 | 2198477 | RU |
| 3GPP | Samsung Electronics | apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system  |  | TS 25.212                           | 2001106655 | 2201651 | RU |
| 3GPP | Samsung Electronics | an iterative decoder and an iterative decoding method for a communication system  |  | TS 25.211                           | 2001117856 |         | RU |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |  | TS 25.331<br>TS 25.430<br>TS 25.211 | 2002110279 |         | RU |
| 3GPP | Samsung Electronics | method and device for assigning a common packet channel in a cdma communication system  |  | TS 25.331<br>TS 25.430<br>TS 25.211 | 2002113927 |         | RU |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system |  | TS 25.213                           | 2002300503 |         | AU |
| 3GPP | Samsung Electronics | device and method for implementing handoff in mobile communication system with short sync channel   |  | TS 25.214                           | 0006167-0  |         | BR |
| 3GPP | Samsung Electronics | device and method for channel coding and multiplexing in cdma communication system  |  | TS 25.212                           | 0006859-4  |         | BR |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system   |  | TS 25.212                           | 0006890-0  |         | BR |
| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in unts mobile communication system   |  | TS 25.213                           | 0006898-5  |         | BR |
| 3GPP | Samsung Electronics | device and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system   |  | TS 25.212                           | 0006919-1  |         | BR |
| 3GPP | Samsung Electronics | 2-dimensional interleaving apparatus and method   |  | TS 25.211                           | 0009376.9  |         | BR |
| 3GPP | Samsung Electronics | device and method for gated transmission in cdma communication system   |  | TS 25.214                           | 0011054-0  |         | BR |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |  | TS 25.331<br>TS 25.430<br>TS 25.211 | 0016008-3  |         | BR |
| 3GPP | Samsung Electronics | device and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system  |  | TS 25.213                           | 006151-4   |         | BR |

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|      |                     |  |                                     |            |    |
|------|---------------------|--|-------------------------------------|------------|----|
| 3GPP | Samsung Electronics | method and device for implementing handoff in mobile communication system with short sync channel                              | TS 25.214                           | 00800886.8 | CN |
| 3GPP | Samsung Electronics | method and apparatus for channel coding and multiplexing in cdma communication system  | TS 25.212                           | 00801160.5 | CN |
| 3GPP | Samsung Electronics | device and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system         | TS 25.213                           | 00801168.0 | CN |
| 3GPP | Samsung Electronics | turbo interleaving apparatus and method  | TS 25.212                           | 00801429.9 | CN |
| 3GPP | Samsung Electronics | 2-dimensional interleaving apparatus and method  | TS 25.211                           | 00805575.0 | CN |
| 3GPP | Samsung Electronics | method and device for gated transmission in a cdma communication system  | TS 25.214                           | 00806189.0 | CN |
| 3GPP | Samsung Electronics | cell search apparatus and method in cdma mobile communication system   | TS 25.214                           | 00806632.9 | CN |
| 3GPP | Samsung Electronics | device and method for assigning a common packet channel in a cdma communication system   | TS 25.331<br>TS 25.430<br>TS 25.211 | 00818399.6 | CN |
| 3GPP | Samsung Electronics | method and apparatus for gated transmission in cdma communication system   | TS 25.214                           | 00818719.3 | CN |
| 3GPP | Samsung Electronics | apparatus and method for gated transmission in a cdma communication system   | TS 25.214                           | 00921136.8 | EP |
| 3GPP | Samsung Electronics | cell search apparatus and method in cdma mobile communication system   | TS 25.214                           | 00921160.8 | EP |
| 3GPP | Samsung Electronics | apparatus and method for synchronizing channels in a w-cdma communication system   | TS 25.214                           | 00925712.2 | EP |
| 3GPP | Samsung Electronics | turbo interleaving apparatus and method  | TS 25.212                           | 00927908.4 | EP |
| 3GPP | Samsung Electronics | apparatus and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system      | TS 25.213                           | 00935677.5 | EP |
| 3GPP | Samsung Electronics | apparatus and method for implementing handoff in mobile communication system with short sync channel                           | TS 25.214                           | 00935686.6 | EP |
| 3GPP | Samsung Electronics | apparatus and method for channel coding and multiplexing in cdma communication system  | TS 25.212                           | 00940975.6 | EP |
| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in umts mobile communication system  | TS 25.213                           | 00942496.1 | EP |
| 3GPP | Samsung Electronics | apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system | TS 25.212                           | 00942500.0 | EP |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system  | TS 25.212                           | 00944447.2 | EP |

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|------|---------------------|---|--|---|------------|--|----|
| 3GPP | Samsung Electronics | device and method for gated transmission in a cdma communication system   |  | TS 25.214   | 009713-6   |  | BR |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |  | TS 25.331<br>TS 25.430<br>TS 25.211                           | 00981895.6 |  | EP |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |  | TS 25.302<br>TS 25.303<br>TS 25.321<br>TS 25.331<br>TS 25.214 | 01800233.1 |  | CN |
| 3GPP | Samsung Electronics | Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System   |  | TS 25.433<br>TS 25.302  | 01800858.5 |  | CN |
| 3GPP | Samsung Electronics | device and method for assigning a common packet channel in a cdma communication system  |  | TS 25.331<br>TS 25.922<br>TS 25.433                           | 01807152.X |  | CN |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |  | TS 25.302<br>TS 25.303<br>TS 25.321<br>TS 25.331<br>TS 25.214 | 01908412.8 |  | EP |
| 3GPP | Samsung Electronics | Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System   |  | TS 25.433<br>TS 25.302  | 01922112.6 |  | EP |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system |  | TS 25.213   | 0202405-7  |  | SE |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system |  | TS 25.213   | 0210215    |  | FR |
| 3GPP | Samsung Electronics | APPARATUS AND METHOD FOR ADAPTIVE CHANNEL ENCODING  |  | TS 25.212   | 02147194.4 |  | CN |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system |  | TS 25.213   | 02151853.X |  | CN |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system |  | TS 25.213   | 0218506.4  |  | GB |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |  | TS 25.302<br>TS 25.303<br>TS 25.321<br>TS 25.331<br>TS 25.214 | 03003595.0 |  | EP |

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|------|---------------------|---|---|------------|-----------|----|
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   | TS 25.302<br>TS 25.303<br>TS 25.321<br>TS 25.331<br>TS 25.214 | 03003596.8 |           | EP |
| 3GPP | Samsung Electronics | turbo encoding/decoding device and method for processing frame data according to qos  | TS 25.212   | 03007405.8 |           | EP |
| 3GPP | Samsung Electronics | turbo encoding/decoding device and method for processing frame data according to qos  | TS 25.212   | 03107664.5 |           | CN |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system | TS 25.213   | 10236913.5 |           | DE |
| 3GPP | Samsung Electronics | ADAPTIVE CHANNEL ENCODING METHOD AND DEVICE   | TS 25.212   | 126250     | 6289486   | US |
| 3GPP | Samsung Electronics | device and method for cancelling code interference in cdma communication system   | TS 25.213   | 134887     |           | IL |
| 3GPP | Samsung Electronics | APPARATUS AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER  | TS 25.212   | 135,676    |           | IL |
| 3GPP | Samsung Electronics | apparatus and method for turbo interleaving   | TS 25.212   | 140661     |           | IL |
| 3GPP | Samsung Electronics | method and device for channel coding and multiplexing in cdma communication system  | TS 25.212   | 141461     |           | IL |
| 3GPP | Samsung Electronics | method and apparatus for generating scrambling code in umts mobile communication system   | TS 25.213   | 141787     |           | IL |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system   | TS 25.212   | 141800     |           | IL |
| 3GPP | Samsung Electronics | method and apparatus for gated transmission in a cdma communication system  | TS 25.214   | 145548     |           | IL |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM   | TS 25.212   | 15095/99   | 739527    | AU |
| 3GPP | Samsung Electronics | METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN RADIO COMMUNICATION SYSTEM   | TS 25.214   | 152,562    | 6,188,910 | US |
| 3GPP | Samsung Electronics | interleaving/deinterleaving device and method for communication system  | TS 25.212   | 16956/00   | 738762    | AU |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system   | TS 25.212   | 1865/2001  | 2001/1865 | ZA |
| 3GPP | Samsung Electronics | interleaving/deinterleaving device and method for communication system  | TS 25.211   | 18946/2000 |           | AU |
| 3GPP | Samsung Electronics | an iterative decoder and an iterative decoding method for a communication system  | TS 25.211   | 18958/00   |           | AU |

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|------|---------------------|---|---|------------|---------|----|
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system                                 | TS 25.331<br>TS 25.430<br>TS 25.211                           | 19000/01   |         | AU |
| 3GPP | Samsung Electronics | channel encoding device and method for communication system   | TS 25.212   | 2,291,696  |         | CA |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER                                   | TS 25.212   | 2,306,367  |         | CA |
| 3GPP | Samsung Electronics | turbo interleaving apparatus and method   | TS 25.212   | 2,337,918  |         | CA |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system                                 | TS 25.302<br>TS 25.303<br>TS 25.321<br>TS 25.331<br>TS 25.214 | 2,370,670  |         | CA |
| 3GPP | Samsung Electronics | interleaving/deinterleaving device and method for communication system  | TS 25.212   | 2000/00230 |         | IN |
| 3GPP | Samsung Electronics | apparatus and method of puncturing for turbo encoder in mobile communication system                                       | TS 25.211   | 2000/00282 |         | IN |
| 3GPP | Samsung Electronics | apparatus and method of channel coding for rate matching  | TS 25.212   | 2000102349 |         | RU |
| 3GPP | Samsung Electronics | apparatus and method for cancelling code interference in cdma communication system  | TS 25.213   | 2000105882 |         | RU |
| 3GPP | Samsung Electronics | METHOD FOR CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM  | TS 25.212   | 2000108450 | 2190929 | RU |
| 3GPP | Samsung Electronics | METHOD AND APPARATUS FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER                                | TS 25.212   | 2000109978 | 2190296 | RU |
| 3GPP | Samsung Electronics | AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL  | TS 34.108   | 2000111554 |         | RU |
| 3GPP | Samsung Electronics | interleaving/deinterleaving device and method for communication system  | TS 25.212   | 2000121962 |         | RU |
| 3GPP | Samsung Electronics | method and device of puncturing for turbo encoder in mobile communication system  | TS 25.211   | 2000122734 | 2185025 | RU |
| 3GPP | Samsung Electronics | turbo interleaving apparatus and method   | TS 25.212   | 2001/00083 |         | IN |
| 3GPP | Samsung Electronics | method and apparatus for generating sync word and transmitting and receiving the sync word in w-cdma communication system | TS 25.213   | 2001/00104 |         | IN |
| 3GPP | Samsung Electronics | apparatus and method for implementing handoff in mobile communication system with short sync channel                      | TS 25.214   | 2001/00122 |         | IN |
| 3GPP | Samsung Electronics | device and method for channel coding and multiplexing in cdma communication   | TS 25.212   | 2001/00221 |         | IN |

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|------|---------------------|--|-------------------------------------|--------------------|-----------|----|
|      |                     | system   |                                     |                    |           |    |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system  | TS 25.212                           | 2001/00258         |           | IN |
| 3GPP | Samsung Electronics | method and device for generating scrambling code in umts mobile communication system   | TS 25.213                           | 2001/00264         |           | IN |
| 3GPP | Samsung Electronics | method and apparatus for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system | TS 25.212                           | 2001/00268         |           | IN |
| 3GPP | Samsung Electronics | an iterative decoder and an iterative decoding method for a communication system   | TS 25.211                           | 2001/00503/<br>DEL |           | IN |
| 3GPP | Samsung Electronics | 2-dimensional interleaving apparatus and method  | TS 25.211                           | 2001/00849/<br>Del |           | IN |
| 3GPP | Samsung Electronics | device and method for gated transmission in a cdma communication system  | TS 25.214                           | 2001/00851/<br>Del |           | IN |
| 3GPP | Samsung Electronics | method and device for gated transmission in cdma communication system  | TS 25.214                           | 2001/01014         |           | IN |
| 3GPP | Samsung Electronics | apparatus and method for channel coding and multiplexing in cdma communication system  | TS 25.212                           | 2001/1530          | 2001/1530 | ZA |
| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in umts mobile communication system  | TS 25.213                           | 2001/1908          | 2001/1908 | ZA |
| 3GPP | Samsung Electronics | apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system | TS 25.212                           | 2001/1935          | 2001/1935 | ZA |
| 3GPP | Samsung Electronics | device and apparatus for turbo interleaving  | TS 25.212                           | 2001101916         |           | RU |
| 3GPP | Samsung Electronics | method and device for channel coding and multiplexing in cdma communication system   | TS 25.212                           | 2001105192         |           | RU |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system  | TS 25.212                           | 2001106625         |           | RU |
| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in umts mobile communication system  | TS 25.213                           | 2001106659         | 2185031   | RU |
| 3GPP | Samsung Electronics | apparatus and method for gated transmission in a cdma communication system   | TS 25.214                           | 2001127670         |           | RU |
| 3GPP | Samsung Electronics | method and device for assigning a common packet channel in a cdma communication system   | TS 25.331<br>TS 25.430<br>TS 25.211 | 2002/00501         |           | IN |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system                                      | TS 25.331<br>TS 25.430<br>TS 25.211 | 2002/5150          |           | ZA |

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|------|---------------------|---|------------------------|-------------|------------|----|
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system | TS 25.213              | 20021460    |            | FI |
| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in umts mobile communication system   | TS 25.213              | 20023092.1  | 20023092.1 | DE |
| 3GPP | Samsung Electronics | turbo interleaving apparatus and method   | TS 25.212              | 20023169.3  | 20023169.3 | DE |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system   | TS 25.212              | 20023175.8  |            | DE |
| 3GPP | Samsung Electronics | apparatus and method for channel coding and multiplexing in cdma communication system   | TS 25.212              | 20023176.6  | 20023176.6 | DE |
| 3GPP | Samsung Electronics | channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM   | TS 25.212              | 209114      |            | US |
| 3GPP | Samsung Electronics | METHOD AND DEVICE FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM   | TS 25.212              | 2134/Cal/98 |            | IN |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system | TS 25.213              | 218,158     |            | US |
| 3GPP | Samsung Electronics | turbo encoding/decoding device and method for processing frame data according to qos  | TS 25.212              | 2291109     |            | CA |
| 3GPP | Samsung Electronics | ADAPTIVE CHANNEL ENCODING METHOD AND DEVICE   | TS 25.212              | 2295791     |            | CA |
| 3GPP | Samsung Electronics | device and method for cancelling code interference in cdma communication system   | TS 25.213              | 2302340     |            | CA |
| 3GPP | Samsung Electronics | AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL  | TS 34.108              | 2308621     | 2308621    | CA |
| 3GPP | Samsung Electronics | apparatus and method for synchronizing channels in a w-cdma communication system  | TS 25.214              | 2334898     |            | CA |
| 3GPP | Samsung Electronics | apparatus and method for implementing handoff in mobile communication system with short sync channel  | TS 25.214              | 2337917     |            | CA |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system | TS 25.213              | 235010/2002 |            | JP |
| 3GPP | Samsung Electronics | cell searchapparatus and method in cdma mobile communication system   | TS 25.214              | 2371205     |            | CA |
| 3GPP | Samsung Electronics | apparatus and method for gated transmission in a cdma communication system  | TS 25.214              | 2371958     |            | CA |
| 3GPP | Samsung Electronics | Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System   | TS 25.433<br>TS 25.302 | 2372557     |            | CA |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM   | TS 25.211              | 25510/99    | 730798     | AU |

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| 3GPP | Samsung Electronics | METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN A RADIO COMMUNICATION SYSTEM       | TS 25.214   | 260172/1998 |            | JP |
| 3GPP | Samsung Electronics | turbo encoding/decoding device and method for processing frame data according to qos        | TS 25.212   | 282851      |            | US |
| 3GPP | Samsung Electronics | apparatus and method for turbo encoding/decoding for processing frame data according to qos | TS 25.212   | 292/CAL/99  |            | IN |
| 3GPP | Samsung Electronics | channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM                     | TS 25.212   | 294659      |            | US |
| 3GPP | Samsung Electronics | turbo encoding/decoding device and method for processing frame data according to qos        | TS 25.212   | 29924421    | 29924421.0 | DE |
| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in umts mobile communication system     | TS 25.213   | 3008940.3   |            | EP |
| 3GPP | Samsung Electronics | turbo encoding/decoding device and method for processing frame data according to qos        | TS 25.212   | 30568/99    | 722598     | AU |
| 3GPP | Samsung Electronics | channel coding device and method for rate matching  | TS 25.212   | 326891      | 6397367    | US |
| 3GPP | Samsung Electronics | channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM                     | TS 25.212   | 33459/99    | 733641     | AU |
| 3GPP | Samsung Electronics | channel encoding device and method for communication system                                 | TS 25.212   | 33460/99    | 735889     | AU |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM                     | TS 25.212   | 345277/1998 | 3043729    | JP |
| 3GPP | Samsung Electronics | device and method for cancelling code interference in cdma communication system             | TS 25.213   | 348701      | 6459693    | US |
| 3GPP | Samsung Electronics | device and method for channel encoding/decoding FOR COMMUNICATION SYSTEM                    | TS 25.212   | 356/Cal/99  |            | IN |
| 3GPP | Samsung Electronics | method and device for channel encoding for communication system                             | TS 25.212   | 357/Cal/99  |            | IN |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   | TS 25.331<br>TS 25.922<br>TS 25.433                           | 36147/01    |            | AU |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   | TS 25.302<br>TS 25.303<br>TS 25.321<br>TS 25.331<br>TS 25.214 | 36155/01    |            | AU |
| 3GPP | Samsung Electronics | 2-dimensional interleaving apparatus and method   | TS 25.211   | 36827/00    |            | AU |

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|------|---------------------|---|--|------------------------|-------------|-----------|----|
| 3GPP | Samsung Electronics | CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM   |  | TS 25.212              | 369,626     | 6,487,693 | US |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER                                     |  | TS 25.212              | 378,371     | 6,374,386 | US |
| 3GPP | Samsung Electronics | AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL  |  | TS 34.108              | 389287      | 6356599   | US |
| 3GPP | Samsung Electronics | apparatus and method for gated transmission in a cdma communication system  |  | TS 25.214              | 41484/00    |           | AU |
| 3GPP | Samsung Electronics | cell search apparatus and method in cdma mobile communication system  |  | TS 25.214              | 41505/00    |           | AU |
| 3GPP | Samsung Electronics | apparatus and method for synchronizing channels in a w-cdma communication system  |  | TS 25.214              | 44360/00    |           | AU |
| 3GPP | Samsung Electronics | turbo interleaving apparatus and method   |  | TS 25.212              | 46213/00    | 752231    | AU |
| 3GPP | Samsung Electronics | method and device for cancelling code interference in cdma communication system   |  | TS 25.213              | 46562/99    | 729216    | AU |
| 3GPP | Samsung Electronics | interleaving/deintereaving device and method for communication system   |  | TS 25.212              | 468568      |           | US |
| 3GPP | Samsung Electronics | interleaving/deintrleaving device and method for communication system   |  | TS 25.211              | 472453      | 6493815   | US |
| 3GPP | Samsung Electronics | puncturing device and method for turbo encoder in mobile communication system   |  | TS 25.211              | 475,559     |           | US |
| 3GPP | Samsung Electronics | Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System                               |  | TS 25.433<br>TS 25.302 | 48892/01    |           | AU |
| 3GPP | Samsung Electronics | method and apparatus for implementing handoff in mobile communication system with short sync channel                        |  | TS 25.214              | 500465/2001 |           | JP |
| 3GPP | Samsung Electronics | method and device for generating sync word and transmitting and receiving the sync word in w-cdma communication system      |  | TS 25.213              | 500475/2001 |           | JP |
| 3GPP | Samsung Electronics | apparatus and method for channel coding and multiplexing in cdma communication system                                       |  | TS 25.212              | 506182/2001 |           | JP |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system   |  | TS 25.212              | 508111/2001 |           | JP |
| 3GPP | Samsung Electronics | method and device for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system |  | TS 25.212              | 509176/2001 |           | JP |
| 3GPP | Samsung Electronics | method and apparatus for generating scrambling code in umts mobile communication system                                     |  | TS 25.213              | 509194/2001 |           | JP |
| 3GPP | Samsung Electronics | apparatus and method for gated transmission in cdma communication system  |  | TS 25.214              | 51109/00    |           | AU |
| 3GPP | Samsung Electronics | apparatus and method for implementing handoff in mobile communication system with short sync channel                        |  | TS 25.214              | 51114/00    |           | AU |

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| 3GPP | Samsung Electronics | method and device of channel coding for rate matching  |  | TS 25.212   | 527/Ca/99   |         | IN |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER                |  | TS 25.212   | 53086/99    | 731794  | AU |
| 3GPP | Samsung Electronics | device and method for assigning a common packet channel in a cdma communication system                 |  | TS 25.331<br>TS 25.430<br>TS 25.211                           | 540940/2001 |         | JP |
| 3GPP | Samsung Electronics | APPARATUS AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM |  | TS 25.211   | 542395/1999 |         | JP |
| 3GPP | Samsung Electronics | apparatus and method for gated transmission in a cdma communication system                             |  | TS 25.214   | 547886      |         | US |
| 3GPP | Samsung Electronics | turbo encoding/decoding device and method for processing frame data according to qos                   |  | TS 25.212   | 549213/1999 | 3343574 | JP |
| 3GPP | Samsung Electronics | apparatus and method for channel encoding/decoding FOR COMMUNICATION SYSTEM                            |  | TS 25.212   | 552818/1999 |         | JP |
| 3GPP | Samsung Electronics | apparatus and method for channel encoding for communication system                                     |  | TS 25.212   | 552819/1999 |         | JP |
| 3GPP | Samsung Electronics | PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM  |  | TS 25.211   | 55314/99    | 746080  | AU |
| 3GPP | Samsung Electronics | AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL                       |  | TS 34.108   | 55322/99    | 731874  | AU |
| 3GPP | Samsung Electronics | channel coding device and method for rate matching   |  | TS 25.212   | 554056/2000 | 3415120 | JP |
| 3GPP | Samsung Electronics | apparatus and method for channel coding and multiplexing in cdma communication system                  |  | TS 25.212   | 55754/00    |         | AU |
| 3GPP | Samsung Electronics | cell searchapparatus and method in cdma mobile communication system                                    |  | TS 25.214   | 558237      |         | US |
| 3GPP | Samsung Electronics | method and apparatus for assigning a common packet channel in a cdma communication system              |  | TS 25.331<br>TS 25.922<br>TS 25.433                           | 560555/2001 |         | JP |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system              |  | TS 25.302<br>TS 25.303<br>TS 25.321<br>TS 25.331<br>TS 25.214 | 560556/2001 |         | JP |
| 3GPP | Samsung Electronics | apparatus and method for synchronizing channels in a w-cdma communication system                       |  | TS 25.214   | 562381      |         | US |
| 3GPP | Samsung Electronics | CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM  |  | TS 25.212   | 564304/2000 |         | JP |

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| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in umts mobile communication system  | TS 25.213              | 57108/00    |         | AU |
| 3GPP | Samsung Electronics | apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system | TS 25.212              | 57112/00    | 751376  | AU |
| 3GPP | Samsung Electronics | turbo interleaving apparatus and method  | TS 25.212              | 575,084     |         | US |
| 3GPP | Samsung Electronics | Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System                                  | TS 25.433<br>TS 25.302 | 575013/2001 |         | JP |
| 3GPP | Samsung Electronics | apparatus and method for gated transmission in cdma communication system   | TS 25.214              | 584046      |         | US |
| 3GPP | Samsung Electronics | apparatus and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system      | TS 25.213              | 584051      |         | US |
| 3GPP | Samsung Electronics | apparatus and method for implementing handoff in mobile communication system with short sync channel                           | TS 25.214              | 584278      |         | US |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system  | TS 25.212              | 58544/00    |         | AU |
| 3GPP | Samsung Electronics | interleaving/deinterleaving device and method for communication system   | TS 25.212              | 590308/2000 |         | JP |
| 3GPP | Samsung Electronics | interleaving/deinterleaving device and method for communication system   | TS 25.211              | 591739/2000 |         | JP |
| 3GPP | Samsung Electronics | an iterative decoder and an iterative decoding method for a communication system   | TS 25.211              | 592947/2000 |         | JP |
| 3GPP | Samsung Electronics | method and apparatus of puncturing for turbo encoder in mobile communication system  | TS 25.211              | 592976/2000 | 3359911 | JP |
| 3GPP | Samsung Electronics | apparatus and method for channel coding and multiplexing in cdma communication system  | TS 25.212              | 603,062     |         | US |
| 3GPP | Samsung Electronics | method and device for cancelling code interference in cdma communication system  | TS 25.213              | 604/Cal/99  |         | IN |
| 3GPP | Samsung Electronics | 2-dimensional interleaving apparatus and method  | TS 25.211              | 610135/2000 |         | JP |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system  | TS 25.212              | 611014      |         | US |
| 3GPP | Samsung Electronics | method and device for gated transmission in a cdma communication system  | TS 25.214              | 611414/2000 |         | JP |
| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in umts mobile communication system  | TS 25.213              | 611518      |         | US |
| 3GPP | Samsung Electronics | cell search apparatus and method in cdma mobile communication system   | TS 25.214              | 614570/2000 |         | JP |
| 3GPP | Samsung Electronics | method and device for synchronizing channels in a w-cdma communication system  | TS 25.214              | 616143/2000 |         | JP |

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| 3GPP | Samsung Electronics | method and device for turbo interleaving  |  | TS 25.212   | 619112/2000  | 3359912 | JP |
| 3GPP | Samsung Electronics | CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM   |  | TS 25.212   | 693/Cal/99   |         | IN |
| 3GPP | Samsung Electronics | METHOD AND APPARATUS FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER  |  | TS 25.212   | 720/Cal/99   |         | IN |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |  | TS 25.331<br>TS 25.922<br>TS 25.433                           | 784914       |         | US |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   |  | TS 25.302<br>TS 25.303<br>TS 25.321<br>TS 25.331<br>TS 25.214 | 788,980      |         | US |
| 3GPP | Samsung Electronics | device and method for synchronizing channels in a w-cdma communication system   |  | TS 25.214   | 800713.6     |         | CN |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system   |  | TS 25.212   | 801336.5     |         | CN |
| 3GPP | Samsung Electronics | device and method for generating scrambling code in umts mobile communication system  |  | TS 25.213   | 801819.7     |         | CN |
| 3GPP | Samsung Electronics | Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System                                       |  | TS 25.433<br>TS 25.302  | 832237       |         | US |
| 3GPP | Samsung Electronics | METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN RADIO COMMUNICATION SYSTEM   |  | TS 25.214   | 98120390.6   |         | CN |
| 3GPP | Samsung Electronics | APPARATUS AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM  |  | TS 25.212   | 9815424-9    |         | BR |
| 3GPP | Samsung Electronics | METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN RADIO COMMUNICATION SYSTEM   |  | TS 25.214   | 9819891.4    | 2329556 | GB |
| 3GPP | Samsung Electronics | METHOD AND DEVICE FOR ADAPTIVE CHANNEL ENCODING   |  | TS 25.212   | 98807352.8   |         | CN |
| 3GPP | Samsung Electronics | device and method for turbo encoding/decoding for processing frame data according to qos  |  | TS 25.212   | 99 912 135.3 |         | BR |
| 3GPP | Samsung Electronics | channel encoding device and method for communication system   |  | TS 25.212   | 99 914 797.8 |         | EP |
| 3GPP | Samsung Electronics | tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication |  | TS 25.211   | 99 935 155.4 |         | EP |
| 3GPP | Samsung Electronics | PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM   |  | TS 25.211   | 99 941 830.4 |         | EP |

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|------|---------------------|---|--|-----------|------------|---------|----|
| 3GPP | Samsung Electronics | apparatus and method for cancelling code interference in cdma communication system          |  | TS 25.213 | 990103290  |         | AR |
| 3GPP | Samsung Electronics | interleaving/deintereaving device and method for communication system                       |  | TS 25.212 | 9907844-9  |         | BR |
| 3GPP | Samsung Electronics | device and method of puncturingfor turbo encoder in mobile communication system             |  | TS 25.211 | 9908388-4  |         | BR |
| 3GPP | Samsung Electronics | method and device for turbo encoding/decoding for processing frame data according to qos    |  | TS 25.212 | 99125204   |         | RU |
| 3GPP | Samsung Electronics | method and apparatus for channel encoding for communication system                          |  | TS 25.212 | 99126707   | 2184419 | RU |
| 3GPP | Samsung Electronics | method and apparatus for channel encoding/decoding FOR COMMUNICATION SYSTEM                 |  | TS 25.212 | 99127341   |         | RU |
| 3GPP | Samsung Electronics | an iterative decoder and an iterative decoding method for a communication system            |  | TS 25.211 | 9916593-7  |         | BR |
| 3GPP | Samsung Electronics | apparatus and method for turbo encoding/decoding for processing frame data according to qos |  | TS 25.212 | 99800417   |         | CN |
| 3GPP | Samsung Electronics | device and method for channel encoding for communication system                             |  | TS 25.212 | 99800556.8 |         | CN |
| 3GPP | Samsung Electronics | method and apparatus of channel coding for rate matching                                    |  | TS 25.212 | 99800817.6 |         | CN |
| 3GPP | Samsung Electronics | method and apparatus for cancelling code interference in cdma communication system          |  | TS 25.213 | 99801088.X |         | CN |
| 3GPP | Samsung Electronics | METHOD FOR CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM                                |  | TS 25.212 | 99801298.X |         | CN |
| 3GPP | Samsung Electronics | APPARATUS AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER  |  | TS 25.212 | 99801406.0 |         | CN |
| 3GPP | Samsung Electronics | PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM                                 |  | TS 25.211 | 99801499.0 |         | CN |
| 3GPP | Samsung Electronics | AFC APPARATUS AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL         |  | TS 34.108 | 99801510.5 |         | CN |
| 3GPP | Samsung Electronics | interleaving/deintereaving device and method for communication system                       |  | TS 25.212 | 99803175.5 |         | CN |
| 3GPP | Samsung Electronics | puncturing device and method for turbo encoder in mobile communication system               |  | TS 25.211 | 99803456.8 |         | CN |
| 3GPP | Samsung Electronics | interleaving/deintrleaving device and method for communication system                       |  | TS 25.211 | 99815036.3 |         | CN |
| 3GPP | Samsung Electronics | turbo encoding/decoding device and method for processing frame data according to qos        |  | TS 25.212 | 99912135.3 |         | EP |
| 3GPP | Samsung Electronics | channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM                     |  | TS 25.212 | 99914796.0 |         | EP |

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|      |                     |   |  |           |                   |          |    |
|------|---------------------|---|--|-----------|-------------------|----------|----|
| 3GPP | Samsung Electronics | channel coding device and method for rate matching  |  | TS 25.212 | 99925431.1        |          | EP |
| 3GPP | Samsung Electronics | device and method for cancelling code interference in cdma communication system   |  | TS 25.213 | 99929929.0        |          | EP |
| 3GPP | Samsung Electronics | CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM   |  | TS 25.212 | 99935167.9        |          | EP |
| 3GPP | Samsung Electronics | AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL  |  | TS 34.108 | 99941839.5        |          | EP |
| 3GPP | Samsung Electronics | interleaving/deinterleaving device and method for communication system  |  | TS 25.211 | 99962527.0        |          | EP |
| 3GPP | Samsung Electronics | puncturing device and method for turbo encoder in mobile communication system   |  | TS 25.211 | 99962552.8        |          | EP |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system |  | TS 25.213 | MI<br>2002A001821 |          | IT |
| 3GPP | Samsung Electronics | METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN RADIO COMMUNICATION SYSTEM   |  | TS 25.214 | P1997003626<br>5  |          | KR |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR ADAPTIVE CHANNEL ENCODING   |  | TS 25.212 | P1997003626<br>5  |          | KR |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM   |  | TS 25.212 | P1997006596<br>2  |          | KR |
| 3GPP | Samsung Electronics | METHOD AND APPARATUS FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM  |  | TS 25.211 | P1998000552<br>6  |          | KR |
| 3GPP | Samsung Electronics | a method and an apparatus for turbo encoding/decoding for processing frame data according to 변  |  | TS 25.212 | P1998001138<br>0  |          | KR |
| 3GPP | Samsung Electronics | method and device for channel encoding for communication system   |  | TS 25.212 | P1998001395<br>6  |          | KR |
| 3GPP | Samsung Electronics | method and apparatus for channel encoding/decoding FOR COMMUNICATION SYSTEM   |  | TS 25.212 | P1998001395<br>7  |          | KR |
| 3GPP | Samsung Electronics | Complementary data communication method and apparatus for code division multiple access communication method  |  | TS 25.214 | P1998001781<br>8  |          | KR |
| 3GPP | Samsung Electronics | channel coding device and method for rate matching  |  | TS 25.212 | P1998002099<br>0  |          | KR |
| 3GPP | Samsung Electronics | device and method for cancelling code interference in cdma communication system   |  | TS 25.213 | P1998002773<br>6  | P0318959 | KR |
| 3GPP | Samsung Electronics | APPARATUS AND METHOD FOR CALIBRATING MEMENT-OF-INERTIA AND CENT-OF-GRAVITY  |  | TS 25.214 | P1998003089<br>5  | P0274087 | KR |
| 3GPP | Samsung Electronics | tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication   |  | TS 25.211 | P1998003156<br>9  | P0326314 | KR |

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|      |                     |   |  |           |                  |          |    |
|------|---------------------|---|--|-----------|------------------|----------|----|
| 3GPP | Samsung Electronics | CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM   |  | TS 25.212 | P1998003247<br>1 | P0338663 | KR |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER                                   |  | TS 25.212 | P1998003418<br>6 |          | EP |
| 3GPP | Samsung Electronics | DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER                                   |  | TS 25.212 | P1998003418<br>6 |          | KR |
| 3GPP | Samsung Electronics | PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM   |  | TS 25.211 | P1998003579<br>7 |          | KR |
| 3GPP | Samsung Electronics | AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL  |  | TS 34.108 | P1998003602<br>3 | P0274089 | KR |
| 3GPP | Samsung Electronics | interface canceling method and apparatus for wireless communication system  |  | TS 34.108 | P1998005786<br>6 | P0306283 | KR |
| 3GPP | Samsung Electronics | interleaving/deinterleaving device and method for communication system  |  | TS 25.212 | P1998005795<br>9 | P0346170 | KR |
| 3GPP | Samsung Electronics | interleaving/deinterleaving device and method for communication system  |  | TS 25.211 | P1998005906<br>8 | P0350459 | KR |
| 3GPP | Samsung Electronics | an iterative decoder and an iterative decoding method for a communication system  |  | TS 25.211 | P1998006270<br>9 | P0321978 | KR |
| 3GPP | Samsung Electronics | puncturing device and method for turbo encoder in mobile communication system   |  | TS 25.211 | P1998006272<br>5 | P0315708 | KR |
| 3GPP | Samsung Electronics | 2-dimensional interleaving apparatus and method   |  | TS 25.211 | P1999001179<br>9 |          | KR |
| 3GPP | Samsung Electronics | apparatus and method for gated transmission in a cdma communication system  |  | TS 25.214 | P1999001361<br>0 |          | KR |
| 3GPP | Samsung Electronics | channel encoding device and method for communication system   |  | TS 25.212 | P1999001386<br>9 | P0318911 | KR |
| 3GPP | Samsung Electronics | cell search apparatus and method in cdma mobile communication system  |  | TS 25.214 | P1999001473<br>7 | P0290678 | KR |
| 3GPP | Samsung Electronics | apparatus and method for synchronizing channels in a w-cdma communication system  |  | TS 25.214 | P1999001533<br>2 |          | KR |
| 3GPP | Samsung Electronics | turbo interleaving apparatus and method   |  | TS 25.212 | P1999001856<br>0 |          | KR |
| 3GPP | Samsung Electronics | apparatus and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system |  | TS 25.213 | P1999001964<br>4 |          | KR |
| 3GPP | Samsung Electronics | apparatus and method for gated transmission in cdma communication system  |  | TS 25.214 | P1999001964<br>7 |          | KR |

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|      |                     |   |   |                  |          |    |
|------|---------------------|---|---|------------------|----------|----|
| 3GPP | Samsung Electronics | apparatus and method for implementing handoff in mobile communication system with short sync channel  | TS 25.214   | P1999001968<br>1 | P0350466 | KR |
| 3GPP | Samsung Electronics | apparatus and method for channel coding and multiplexing in cdma communication system   | TS 25.212   | P1999002622<br>1 |          | KR |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system   | TS 25.212   | P1999002697<br>8 |          | KR |
| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in unts mobile communication system   | TS 25.213   | P1999002727<br>9 |          | KR |
| 3GPP | Samsung Electronics | apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system  | TS 25.212   | P1999002740<br>7 |          | KR |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   | TS 25.331<br>TS 25.430<br>TS 25.211                           | P1999005363<br>0 |          | KR |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   | TS 25.331<br>TS 25.922<br>TS 25.433                           | P2000000833<br>7 |          | EP |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   | TS 25.331<br>TS 25.922<br>TS 25.433                           | P2000000833<br>7 |          | KR |
| 3GPP | Samsung Electronics | apparatus and method for assigning a common packet channel in a cdma communication system   | TS 25.302<br>TS 25.303<br>TS 25.321<br>TS 25.331<br>TS 25.214 | P2000000922<br>6 |          | KR |
| 3GPP | Samsung Electronics | Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System   | TS 25.433<br>TS 25.302  | P2000001875<br>2 |          | KR |
| 3GPP | Samsung Electronics | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system | TS 25.213   | P2001004858<br>0 |          | KR |
| 3GPP | Samsung Electronics | apparatus and method for channel coding and multiplexing in cdma communication system   | TS 25.212   | P346341          |          | PL |
| 3GPP | Samsung Electronics | device and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system   | TS 25.212   | P346622          |          | PL |
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system   | TS 25.212   | P346646          |          | PL |
| 3GPP | Samsung Electronics | device and method of channel coding for rate matching   | TS 25.212   | PI9906479-0      |          | BR |
| 3GPP | Samsung Electronics | device and method for cancelling code interference in cdma communication system   | TS 25.213   | PI9906577-0      |          | BR |

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|      |                     |   |  |           |                   |  |    |
|------|---------------------|---|--|-----------|-------------------|--|----|
| 3GPP | Samsung Electronics | rate matching device and method for a data communication system   |  | TS 25.212 | W002001004<br>46  |  | ID |
| 3GPP | Samsung Electronics | apparatus and method for generating scrambling code in umts mobile communication system                                     |  | TS 25.213 | W002001004<br>77  |  | ID |
| 3GPP | Samsung Electronics | device and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system |  | TS 25.212 | W020010046<br>0   |  | ID |
| 3GPP | Samsung Electronics | METHOD AND DEVICE FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER                                     |  | TS 25.212 | W-2000 0737       |  | ID |
| 3GPP | Samsung Electronics | apparatus and method for channel coding and multiplexing in cdma communication system                                       |  | TS 25.212 | WO00200100<br>363 |  | ID |
| 3GPP | Samsung Electronics | apparatus and method for cancelling code interference in cdma communication system  |  | TS 25.213 | WO20000423        |  | ID |

**Place, Date:**2003.09.19**Signature:**

Kyong J. Ahn  
(Signed for and on behalf of the SIGNATORY)

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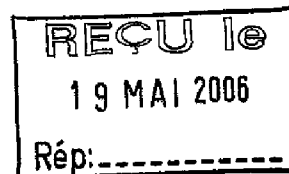
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ANNEX 1**IPR INFORMATION STATEMENT AND LICENSING DECLARATION FORMS**IPR Holder/OrganisationLegal Name: **Samsung Electronics Corporation**SignatoryName: **Seung Gun, Park**Position: **Vice President**Department: **Telecommunication R&D Center**Address: **DongSuwon P.O.BOX 105, 416, Maetan-3Dong, Yeongtong-Gu,  
Suwon-City, Gyeonggi-Do, Korea 442-600**Tel.: **82-31-279-4887**Fax: **82-31-279-4560**E-mail: **sukjin.jang@samsung.com**IPR information statement

In accordance with the ETSI IPR Policy, Article 4.1, I hereby inform ETSI that,

with reference to the technical proposal identified as **3GPP**

and/or in relation to Work Item No.

and/or with reference to ETSI Standard No. **ETSI TS 23. xxx, ETSI TS 25.xxx, (see the  
exact numbers of ETSI Standards No in ANNEX 2)**

it is my belief that the IPRs listed in Annex 2 are, or are likely to become, Essential IPRs in relation to that Standard.

IPR licensing declaration

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 2 and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.

The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

The construction, validity and performance of this DECLARATION shall be governed by the laws of France.

Place, Date:May 16, 2006Signature:

(Signed for and on behalf of the SIGNATORY)

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ANNEX 2

| ETSI Standard, Technical Specification or Work Item |                           |                      |                   | Patent Proprietor               | Patent/ Application No. | Patent Subject/Title   | Country of registration | OPTIONAL INFORMATION: Other Patents/Applications No. in same family |                        |
|---|---------------------------|----------------------|-------------------|---------------------------------|-------------------------|--|-------------------------|---|------------------------|
| Project or Standard name                            | Work Item or Standard No. | Section              | Version (V.X.X.X) |                                 |                         |  |                         | Patent/Applicat ion No.   | Country Applicable     |
| UMTS  | TS 25.331                 | 10.2.16j<br>10.2.16m | V.6.8.0           | Samsung Electronics Corporation | P2002-48610             | METHOD OF TRANSMITTING/RECEIVING CONTROL MESSAGE IN A MOBILE COMMUNICATION SYSTEM PROVIDING MULTIMEDIA BROADCAST/MULTICAST SERVICE | KOREA (REPUBLIC OF)     | 2003235065  | AUSTRALIA              |
|   |                           |                      |                   |                                 |                         |  |                         | 03127276.2  | CHINA                  |
|   |                           |                      |                   |                                 |                         |  |                         | 03018454.3  | European Patent Office |
|   |                           |                      |                   |                                 |                         |  |                         | 293551/2003   | JAPAN                  |
|   |                           |                      |                   |                                 |                         |  |                         | 2003125333  | RUSSIAN FEDERATION     |
|   |                           |                      |                   |                                 |                         |  |                         | 641,500   | UNITED STATES          |
| UMTS  | TS 25.346                 | 8.2.2<br>10.2        | V.2.3.0           | Samsung Electronics Corporation | P2003-68953             | method for transmitting/receiving service availability information of multimedia broadcasting/multicast service                    | KOREA (REPUBLIC OF)     | 2004216584  | AUSTRALIA              |
|   |                           |                      |                   |                                 |                         |  |                         | 200410082095.2  | CHINA                  |
|   |                           |                      |                   |                                 |                         |  |                         | 04023415.5  | European Patent Office |
|   |                           |                      |                   |                                 |                         |  |                         | 592/KOL/2004  | INDIA                  |
|   |                           |                      |                   |                                 |                         |  |                         | 290420/2004   | JAPAN                  |
|   |                           |                      |                   |                                 |                         |  |                         | 957,779   | UNITED STATES          |

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|-----------|-------------------------------------|---|------------------|---------------------------------|----------------------------|---|---------------------|----------------|---------------------------|
| UMTS      | TS 25.322                           | 9.7.10  | V6.7.0           | Samsung Electronics Corporation | P2003-101768               | SELECTIVE COMBINING METHOD AND APPARATUS IN A MOBILE COMMUNICATION SYSTEM                                 | KOREA (REPUBLIC OF) | 04031087.2     | European Patent Office    |
|           |                                     |   |                  |                                 |                            |   |                     | 026,112        | UNITED STATES             |
|           |                                     |   |                  |                                 |                            |   |                     | 2004/003529    | Patent Cooperation Treaty |
| UMTS      | TS 25.304<br>TS 25.346<br>TS 25.331 | 5.2.6.1.0,<br>5.2.6.1.1,<br>5.2.6.1.4<br>11.2<br>10.2.16m | v700             | Samsung Electronics Corporation | P2003-58334<br>P2003-79761 | cell reception method for receiving packet data in a mobile communication system supporting mbms          | KOREA (REPUBLIC OF) | 04019983.8     | European Patent Office    |
|           |                                     |   |                  |                                 |                            |   |                     | W00200600512   | INDONESIA                 |
|           |                                     |   |                  |                                 |                            |   |                     | 924,078        | UNITED STATES             |
|           |                                     |   |                  |                                 |                            |   |                     | 2004/002109    | Patent Cooperation Treaty |
| UMTS      | TS 25.331<br>TS 25.413              | 10.3.3.11<br>8.35   | v6.9.0<br>v6.8.0 | Samsung Electronics Corporation | P2003-8934<br>P2003-20275  | method for managing service context for paging User equipment in a multimedia broadcast/multicast service | KOREA (REPUBLIC OF) | 2004200630     | AUSTRALIA                 |
|           |                                     |   |                  |                                 |                            |   |                     | 200480004039.5 | CHINA                     |
|           |                                     |   |                  |                                 |                            |   |                     | 04003157.7     | European Patent Office    |
|           |                                     |   |                  |                                 |                            |   |                     | 35702/2004     | JAPAN                     |
|           |                                     |   |                  |                                 |                            |   |                     | 2005125597     | RUSSIAN FEDERATION        |
|           |                                     |   |                  |                                 |                            |   |                     | 766,360        | UNITED STATES             |
| 04/000250 | Patent Cooperation Treaty           |   |                  |                                 |                            |   |                     |                |                           |

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|------|-----------|------------|--------|-------------------------------------|----------------------------|---|---------------------|----------------|---------------------------|
| UMTS | TS 25.212 | 4.8.4.1    | v6.3.0 | Samsung Electronics Corporation     | P2003-57735<br>P2005-34772 | method and apparatus for providing uplink packet data service in asynchronous wcdma system  | KOREA (REPUBLIC OF) | 2004269790     | AUSTRALIA                 |
|      |           |            |        |                                     |                            |   |                     | 200480001088.3 | CHINA                     |
|      |           |            |        |                                     |                            |   |                     | 04774369.5     | European Patent Office    |
|      |           |            |        |                                     |                            |   |                     | 668/KOLNP/05   | INDIA                     |
|      |           |            |        |                                     |                            |   |                     | 2006-500705    | JAPAN                     |
|      |           |            |        |                                     |                            |   |                     | 923,391        | UNITED STATES             |
|      |           |            |        |                                     |                            |   |                     | 2004/002108    | Patent Cooperation Treaty |
| UMTS | TR25.321  | 11.8.1.3.2 | v6.5.0 | Samsung Electronics Corporation     | P2003-68954                | method and APPARATUS for scheduling uplink rates adaptively to fast rate ramping in a packet communication system                       | KOREA (REPUBLIC OF) | 200410075731.9 | CHINA                     |
|      |           |            |        |                                     |                            |   |                     | 04023417.1     | European Patent Office    |
|      |           |            |        |                                     |                            |   |                     | 593/KOL/2004   | INDIA                     |
|      |           |            |        |                                     |                            |   |                     | 290419/2004    | JAPAN                     |
|      |           |            |        |                                     |                            |   |                     | 956,926        | UNITED STATES             |
| UMTS | TS 25.346 | 8.2.12     | V6.7.0 | Samsung Electronics Corporation/BST | 2002130570.6               | Multimedia broadcasting and switching method of organizing broadcasting business point to point channel and point to multipoint channel | CHINA               | 1532779        | European Patent Office    |
|      |           |            |        |                                     |                            |   |                     | 2005-536142    | JAPAN                     |
|      |           |            |        |                                     |                            |   |                     | 2005-0083637   | KOREA (REPUBLIC OF)       |
|      |           |            |        |                                     |                            |   |                     | WO04/017580    | Patent Cooperation Treaty |

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| UMTS | TS 25.346              | 4.2.4.4<br>4.2.4.5 | v7.0.0             | Samsung<br>Electronics<br>Corporation/BST | 2003103703.8 | Reordering method for<br>enhancement uplink<br>dedicated channel harq in<br>wcdma system  | CHINA                     | 1595365        | European Patent Office       |
|      |                        |                    |                    |   |              |   |                           | 2005-0106435   | KOREA (REPUBLIC<br>OF)       |
|      |                        |                    |                    |   |              |   |                           | WO04/073273    | Patent Cooperation<br>Treaty |
| UMTS | TS 24.008              | 4.7.13             | v6.8.0             | Samsung<br>Electronics<br>Corporation/BST | 2003127431.5 | A method to differentiate<br>service request caused by<br>MBMS service or other<br>dedicated service  | CHINA                     |                |                              |
| UMTS | TS 25.309<br>TS 25.214 | 6.3.2<br>6B.1      | v.6.6.0<br>v.6.8.0 | Samsung<br>Electronics<br>Corporation     | P2004-31552  | APPARATUS and method<br>for supporting soft<br>combining of scheduling<br>signals for uplink packet<br>data service in a mobile<br>communication system | KOREA<br>(REPUBLIC<br>OF) | 200510081765.3 | CHINA                        |
|      |                        |                    |                    |   |              |   |                           | 05009836.7     | European Patent Office       |
|      |                        |                    |                    |   |              |   |                           | 133514/2005    | JAPAN                        |
|      |                        |                    |                    |   |              |   |                           | 121,032        | UNITED STATES                |

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|      |           |                      |        |                                       |             |   |                           |                |                              |
|------|-----------|----------------------|--------|---------------------------------------|-------------|---|---------------------------|----------------|------------------------------|
| UMTS | TS 25.213 | 4.2.1.3<br>4.3.1.2.3 | v6.1.0 | Samsung<br>Electronics<br>Corporation | P2004-9821  | APPARATUS AND<br>METHOD FOR<br>ALLOCATING OVSF<br>CODES AND I/O<br>CHANNELS FOR<br>REDUCING PEAK-TO-A<br>VERAGE POWER<br>RATIO IN<br>TRANSMITTING DATA<br>VIA ENHANCED UP-<br>LINK DEDICATED<br>CHANNELS IN WCDMA<br>SYSTEM | KOREA<br>(REPUBLIC<br>OF) | 057,618        | UNITED STATES                |
|      |           |                      |        |                                       |             |   |                           | 2005/000402    | Patent Cooperation<br>Treaty |
| UMTS | TS 25.321 | 9.2.5.3.2            | V6.8.0 | Samsung<br>Electronics<br>Corporation | P2003-59172 | METHOD AND<br>APPARATUS FOR<br>SCHEDULING<br>ASSIGNMENT OF<br>UPLINK PACKET<br>TRANSMISSION IN<br>MOBILE<br>TELECOMMUNICATIO<br>N SYSTEM  | KOREA<br>(REPUBLIC<br>OF) | 2004205233     | AUSTRALIA                    |
|      |           |                      |        |                                       |             |   |                           | 200410095124.9 | CHINA                        |
|      |           |                      |        |                                       |             |   |                           | 04020292.1     | European Patent Office       |
|      |           |                      |        |                                       |             |   |                           | 513/kol/2004   | INDIA                        |
|      |           |                      |        |                                       |             |   |                           | 245851/2004    | JAPAN                        |
| UMTS | TS 25.331 | 10.2.16j,<br>8,5,27  | v700   | Samsung<br>Electronics<br>Corporation | P2003-54672 | method for cell reselection<br>for reception of packet<br>data  | KOREA<br>(REPUBLIC<br>OF) | 925,619        | UNITED STATES                |
|      |           |                      |        |                                       |             |   |                           | 2004302148     | AUSTRALIA                    |
|      |           |                      |        |                                       |             |   |                           | 04018846.8     | European Patent Office       |
|      |           |                      |        |                                       |             |   |                           | 914,451        | UNITED STATES                |
|      |           |                      |        |                                       |             |   |                           | 2004/001986    | Patent Cooperation<br>Treaty |

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|---------|------------------------|---|---------|---------------------------------------|-------------|---|---------------------------|----------------|------------------------------|
| UMTS    | TS 25.331              | 8.6.9.3<br>10.3.9a.7                          | V.6.6.0 | Samsung<br>Electronics<br>Corporation | P2004-78108 | PARTIAL COMBINING<br>METHOD AND<br>APPARATUS FOR<br>MULTIMEDIA<br>BROADCAST/MULTICA<br>ST SERVICE                                       | KOREA<br>(REPUBLIC<br>OF) | 05021442.8     | European Patent Office       |
|         |                        |   |         |                                       |             |   |                           | 239,671        | UNITED STATES                |
|         |                        |   |         |                                       |             |   |                           | 2005/003246    | Patent Cooperation<br>Treaty |
| UMTS    | TS 25.346<br>TS 25.331 | 11.2<br>8.5.27                                | V7.0.0  | Samsung<br>Electronics<br>Corporation | P2004-62545 | METHOD AND<br>APPARATUS FOR<br>DISTINGUISHING<br>BETWEEN SERVICES<br>OF ALL FREQUENCY<br>BANDS AND SPECIFIC<br>FREQUENCY BAND           | KOREA<br>(REPUBLIC<br>OF) | 05017336.8     | European Patent Office       |
|         |                        |   |         |                                       |             |   |                           | 199,286        | UNITED STATES                |
| UMTS    | TS 25.331              | 8.6.9.2,<br>8.5.27,<br>8.7.3.4,<br>10.3.7.43a | v700    | Samsung<br>Electronics<br>Corporation | P2004-58947 | METHOD AND<br>APPARATUS FOR<br>SELECTING<br>FREQUENCY LAYER<br>FOR COMMECTED<br>MODE UE IN AN MBMS<br>MOBILE<br>COMMUNICATION<br>SYSTEM | KOREA<br>(REPUBLIC<br>OF) | 2005203267     | AUSTRALIA                    |
|         |                        |   |         |                                       |             |   |                           | 2,513,782      | CANADA                       |
|         |                        |   |         |                                       |             |   |                           | 200510109898.7 | CHINA                        |
|         |                        |   |         |                                       |             |   |                           | 05016352.6     | European Patent Office       |
|         |                        |   |         |                                       |             |   |                           | 216022/2005    | JAPAN                        |
|         |                        |   |         |                                       |             |   |                           | 2005123793     | RUSSIAN<br>FEDERATION        |
| 189,007 | UNITED STATES          |   |         |                                       |             |   |                           |                |                              |

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|------|-----------|----------------------|--------|---------------------------------|-------------|---|---------------------|----------------|---------------------------|
| UMTS | TS 25.309 | 9.3.1.1.3            | v620   | Samsung Electronics Corporation | P2004-62265 | METHOD AND APPARATUS FOR SIGNALING USER EQUIPMENT STATUS INFORMATION FOR UPLINK PACKET TRANSMISSION IN A SOFT HANDOVER REGION                   | KOREA (REPUBLIC OF) | 2005203490     | AUSTRALIA                 |
|      |           |                      |        |                                 |             |   |                     | 200510113291.6 | CHINA                     |
|      |           |                      |        |                                 |             |   |                     | 05017074.5     | European Patent Office    |
|      |           |                      |        |                                 |             |   |                     | 229879/2005    | JAPAN                     |
|      |           |                      |        |                                 |             |   |                     | 2005124991     | RUSSIAN FEDERATION        |
|      |           |                      |        |                                 |             |   |                     | 196,481        | UNITED STATES             |
| UMTS | TS 25.309 | 4.2.1.3<br>4.3.1.2.3 | v6.2.0 | Samsung Electronics Corporation | P2004-55678 | METHOD AND APPARATUS FOR PERFORMING AUTONOMOUS TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM FOR SUPPORTING AN ENGAGED UPLINK DEDICATED CHANNEL | KOREA (REPUBLIC OF) | 2005203110     | AUSTRALIA                 |
|      |           |                      |        |                                 |             |   |                     | 200510092356.3 | CHINA                     |
|      |           |                      |        |                                 |             |   |                     | 05015482.2     | European Patent Office    |
|      |           |                      |        |                                 |             |   |                     | 627/KOL/05     | INDIA                     |
|      |           |                      |        |                                 |             |   |                     | 209098/2005    | JAPAN                     |
|      |           |                      |        |                                 |             |   |                     | 2005122724     | RUSSIAN FEDERATION        |
| UMTS | TS 25.331 | 8.6.9.6              |        | Samsung Electronics Corporation | P2004-73574 | METHOD AND APPARATUS FOR INDICATING CELL SELECTION WHEN A SESSION IS STOPPED IN A MULTIMEDIA BROADCAST/MULTICAST SERVICE SYSTEM                 | KOREA (REPUBLIC OF) | 05019896.9     | European Patent Office    |
|      |           |                      |        |                                 |             |   |                     | 225,008        | UNITED STATES             |
|      |           |                      |        |                                 |             |   |                     | 2005/003025    | Patent Cooperation Treaty |

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|------|-----------|-------------------------|---------|---------------------------------------|---------------|--|---------------------------|--------------------|------------------------------|
| UMTS | TS 25.331 | 8.5.19a,<br>10.2.48.8.8 | V.6.4.0 | Samsung<br>Electronics<br>Corporation | P2003-30639   | APPARATUS and method<br>for transmitting/receiving<br>control information for<br>supporting multimedia<br>broadcast/multicast<br>service     | KOREA<br>(REPUBLIC<br>OF) | 200480012958.7     | CHINA                        |
|      |           |                         |         |                                       |               |  |                           | 04011556.0         | European Patent Office       |
|      |           |                         |         |                                       |               |  |                           | 2006-500689        | JAPAN                        |
|      |           |                         |         |                                       |               |  |                           | 845,001            | UNITED STATES                |
|      |           |                         |         |                                       |               |  |                           | 2004/001061        | Patent Cooperation<br>Treaty |
| UMTS | TS 25.214 | 5.1.2.6                 | v6.5.0  | Samsung<br>Electronics<br>Corporation | P2004-0042300 | method and APPARATUS<br>for data transmission in a<br>mobile telecommunication<br>supporting enhanced<br>uplink service                      | KOREA<br>(REPUBLIC<br>OF) | 2005202512         | AUSTRALIA                    |
|      |           |                         |         |                                       |               |  |                           | 200510091337.9     | CHINA                        |
|      |           |                         |         |                                       |               |  |                           | 05012448.6         | European Patent Office       |
|      |           |                         |         |                                       |               |  |                           | 488/KOLNP/20<br>05 | INDIA                        |
|      |           |                         |         |                                       |               |  |                           | 170181/2005        | JAPAN                        |
| UMTS | TS 25.309 | 14                      | v6.3.0  | Samsung<br>Electronics<br>Corporation | P2002-68266   | scheduling apparatus and<br>method for determining a<br>desired noise rise over<br>thermal noise in a cdma<br>mobile communication<br>system | KOREA<br>(REPUBLIC<br>OF) | 701,245            | UNITED STATES                |
|      |           |                         |         |                                       |               |  |                           | 148,181            | UNITED STATES                |
| UMTS | TS25.213  | 4.2                     | V3.9.0  | Samsung<br>Electronics<br>Corporation | P1994-30743   | receiving apparatus for<br>base station in a code<br>division multiple access<br>system and signal<br>receiving method                       | KOREA<br>(REPUBLIC<br>OF) | 95118184.X         | CHINA                        |
|      |           |                         |         |                                       |               |  |                           | 01121232.2         | CHINA                        |
|      |           |                         |         |                                       |               |  |                           | 03102998.1         | CHINA                        |
|      |           |                         |         |                                       |               |  |                           | 562,281            | UNITED STATES                |
|      |           |                         |         |                                       |               |  |                           | 492,065            | UNITED STATES                |
|      |           |                         |         |                                       |               |  |                           | 414,203            | UNITED STATES                |

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| UMTS       | TS 25.214<br>TS 25.212              | 4.4                   | v6.1                 | Samsung<br>Electronics<br>Corporation | P1999-05263 | power control<br>APPARATUS and method<br>for inter-frequency<br>handoff in cdma<br>communication system | KOREA<br>(REPUBLIC<br>OF) | 25788/00    | AUSTRALIA              |
|            |                                     |                       |                      |                                       |             |   |                           | 2,328,352   | CANADA                 |
|            |                                     |                       |                      |                                       |             |   |                           | 00800572.9  | CHINA                  |
|            |                                     |                       |                      |                                       |             |   |                           | 00904116.1  | GERMANY                |
|            |                                     |                       |                      |                                       |             |   |                           | 00904116.1  | European Patent Office |
|            |                                     |                       |                      |                                       |             |   |                           | 00904116.1  | FINLAND                |
|            |                                     |                       |                      |                                       |             |   |                           | 00904116.1  | FRANCE                 |
|            |                                     |                       |                      |                                       |             |   |                           | 00904116.1  | UNITED KINGDOM         |
|            |                                     |                       |                      |                                       |             |   |                           | 2000/00398  | INDIA                  |
|            |                                     |                       |                      |                                       |             |   |                           | 00904116.1  | ITALY                  |
|            |                                     |                       |                      |                                       |             |   |                           | 2000-599153 | JAPAN                  |
|            |                                     |                       |                      |                                       |             |   |                           | 00904116.1  | SWEDEN                 |
|            |                                     |                       |                      |                                       |             |   |                           | 503,764     | UNITED STATES          |
| 00/00114   | Patent Cooperation<br>Treaty        |                       |                      |                                       |             |   |                           |             |                        |
| UMTS       | TS 25.214<br>TS 25.211<br>TS 25.212 | 5.1.2.5<br>5.2<br>4.4 | v6.1<br>v6.0<br>v6.1 | Samsung<br>Electronics<br>Corporation | P1998-22214 | device and method for<br>controlling power during<br>transmission                                       | KOREA<br>(REPUBLIC<br>OF) | 41715/99    | AUSTRALIA              |
|            |                                     |                       |                      |                                       |             |   |                           | PI9906493-6 | BRAZIL                 |
|            |                                     |                       |                      |                                       |             |   |                           | 2297143     | CANADA                 |
|            |                                     |                       |                      |                                       |             |   |                           | 99800890.7  | CHINA                  |
|            |                                     |                       |                      |                                       |             |   |                           | 99925445.1  | GERMANY                |
|            |                                     |                       |                      |                                       |             |   |                           | 29924367.2  | GERMANY                |
|            |                                     |                       |                      |                                       |             |   |                           | 99925445.1  | European Patent Office |
|            |                                     |                       |                      |                                       |             |   |                           | 99925445.1  | FINLAND                |
|            |                                     |                       |                      |                                       |             |   |                           | 99925445.1  | FRANCE                 |
|            |                                     |                       |                      |                                       |             |   |                           | 99925445.1  | UNITED KINGDOM         |
| 545/cal/99 | INDIA                               |                       |                      |                                       |             |   |                           |             |                        |

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|      |                        |                    |         |                                       |             |  |                           | 99925445.1   | ITALY                        |
|      |                        |                    |         |                                       |             |  |                           | 2000-555368  | JAPAN                        |
|      |                        |                    |         |                                       |             |  |                           | 2000103039   | RUSSIAN<br>FEDERATION        |
|      |                        |                    |         |                                       |             |  |                           | 99925445.1   | SWEDEN                       |
|      |                        |                    |         |                                       |             |  |                           | 333,192      | UNITED STATES                |
|      |                        |                    |         |                                       |             |  |                           | PCT199900294 | Patent Cooperation<br>Treaty |
| UMTS | TS 25.211<br>TS 25.214 | 5.3.3.5<br>5.2.3.2 | v 6.0.0 | Samsung<br>Electronics<br>Corporation | P1999-15224 | cell search APPARATUS<br>and method in<br>asynchronoUS<br>communication system | KOREA<br>(REPUBLIC<br>OF) | 44358/00     | AUSTRALIA                    |
|      |                        |                    |         |                                       |             |  |                           | 2,335,028    | CANADA                       |
|      |                        |                    |         |                                       |             |  |                           | 00800688.1   | CHINA                        |
|      |                        |                    |         |                                       |             |  |                           | 00925710.6   | GERMANY                      |
|      |                        |                    |         |                                       |             |  |                           | 00925710.6   | European Patent Office       |
|      |                        |                    |         |                                       |             |  |                           | 00925710.6   | FRANCE                       |
|      |                        |                    |         |                                       |             |  |                           | 00925710.6   | UNITED KINGDOM               |
|      |                        |                    |         |                                       |             |  |                           | 616140/2000  | JAPAN                        |
|      |                        |                    |         |                                       |             |  |                           | 560,732      | UNITED STATES                |
|      |                        |                    |         |                                       |             |  |                           | 00/00405     | Patent Cooperation<br>Treaty |
| UMTS | TS 25.214              | 6A                 | V5.6.0  | Samsung<br>Electronics<br>Corporation | P1998-28975 | PROCESSING PACKET<br>DATA IN MOBILE<br>COMMUNICATION<br>SYSTEM                 | KOREA<br>(REPUBLIC<br>OF) | PI9906601-7  | BRAZIL                       |
|      |                        |                    |         |                                       |             |  |                           | 2,302,269    | CANADA                       |
|      |                        |                    |         |                                       |             |  |                           | 99801423.0   | CHINA                        |
|      |                        |                    |         |                                       |             |  |                           | 99 933 264.6 | GERMANY                      |
|      |                        |                    |         |                                       |             |  |                           | 99933264.6   | European Patent Office       |
|      |                        |                    |         |                                       |             |  |                           | 99 933 264.6 | FINLAND                      |
|      |                        |                    |         |                                       |             |  |                           | 99 933 264.6 | FRANCE                       |
|      |                        |                    |         |                                       |             |  |                           | 99 933 264.6 | UNITED KINGDOM               |

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|      |                                     |                               |         |  |                |   |                   | 630/cal/99   | INDIA                        |
|      |                                     |                               |         |  |                |   |                   | 99 933 264.6 | ITALY                        |
|      |                                     |                               |         |  |                |   |                   | 560739/2000  | JAPAN                        |
|      |                                     |                               |         |  |                |   |                   | 2000106436   | RUSSIAN<br>FEDERATION        |
|      |                                     |                               |         |  |                |   |                   | 99 933 264.6 | SWEDEN                       |
|      |                                     |                               |         |  |                |   |                   | 354,707      | UNITED STATES                |
|      |                                     |                               |         |  |                |   |                   | PCT/99/00380 | Patent Cooperation<br>Treaty |
| UMTS | TS 25.331                           | 10.2.16                       | V.6.7.0 | Samsung<br>Electronics<br>Corporation/SERI | GB 200400255.6 | Radio Message MBMS<br>Finalisation  | UNITED<br>KINGDOM | 20050195760  | UNITED STATES                |
|      |                                     |                               |         |  |                |   |                   | PCT05/067175 | Patent Cooperation<br>Treaty |
| UMTS | TS 25.331<br>TS 25.427              | 8.3.4.3<br>5.12               | V.6.7.0 | Samsung<br>Electronics<br>Corporation/SERI | GB 200417568.3 | Telecommunications<br>methods and<br>APPARATUS  | UNITED<br>KINGDOM |              |                              |
| UMTS | TS 25.331<br>TS 25.346<br>TS 25.423 | 10.2.16e<br>5.1.10<br>8.2.2.2 | V.6.7.0 | Samsung<br>Electronics<br>Corporation/SERI | GB 200406664.3 | Method of transmitting<br>information related to a<br>multicast service in a<br>mobile communication<br>network | UNITED<br>KINGDOM | 1581014      | European Patent Office       |
|      |                                     |                               |         |  |                |   |                   | 20050232176  | UNITED STATES                |
|      |                                     |                               |         |  |                |   |                   | WO05/091531  | European Patent Office       |
| UMTS | TS 25.331                           | 10.2.16l/g/<br>k              | V.6.7.0 | Samsung<br>Electronics<br>Corporation/SERI | GB 200421084.5 | Signalling of radio bearer<br>information   | UNITED<br>KINGDOM |              |                              |

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| UMTS | TS 25.413             | 8.36<br>4.5.1.1.2   | v6.5.0<br>v6.2.0 | Samsung<br>Electronics<br>Corporation/BST | 2002150342.7 | Method for Multimedia<br>Broadcast/Multicast<br>Service Signaling Bearer<br>Connection on Iu Interface   | CHINA                     | 1568181      | European Patent Office       |
|      |                       |   |                  |   |              |  |                           | 2006-506001  | JAPAN                        |
|      |                       |   |                  |   |              |  |                           | 2005-0073613 | KOREA (REPUBLIC<br>OF)       |
|      |                       |   |                  |   |              |  |                           | WO04/043021  | Patent Cooperation<br>Treaty |
| UMTS | TS 25.331             | 8.3.1<br>8.7.4<br>8.6.9.6<br>10.3.3.3<br>8.1.3<br>10.3.3.11 | V6.7.0           | Samsung<br>Electronics<br>Corporation/BST | 2003147532.9 | Method for Initiating<br>Uplink Signaling<br>Proactively by MBMS UE                                      | CHINA                     |              |                              |
| UMTS | TS 24.008<br>TS23.246 | 9.5.22<br>8.2   | v6.8.0<br>v6.9.0 | Samsung<br>Electronics<br>Corporation/BST | 2003154674.9 | Method for Supporting<br>Backward Compatibility<br>of MBMS   | CHINA                     | WO05/020461  | Patent Cooperation<br>Treaty |
| UMTS | TS 25.214             | 5.1.2.5B.2.<br>3  | v650             | Samsung<br>Electronics<br>Corporation     | P2005-1400   | METHOD FOR<br>CONFIGURING GAIN<br>FACTORS FOR UPLINK<br>SERVICE IN RADIO<br>TELECOMMUNICATIO<br>N SYSTEM | KOREA<br>(REPUBLIC<br>OF) | 06000204.5   | European Patent Office       |
|      |                       |   |                  |   |              |  |                           | 1777/2006    | JAPAN                        |
|      |                       |   |                  |   |              |  |                           | 326,595      | UNITED STATES                |
| UMTS | TS 25.427             | 6.3.3.9.9   | v6.4.0           | Samsung<br>Electronics<br>Corporation     | P2005-25893  |  | KOREA<br>(REPUBLIC<br>OF) |              |                              |

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|------|---------------|----------|--------|---------------------------------|---------------|---|---------------------|----------------|------------------------|
| UMTS | TS 25.212     | 4.10.4   | v6.5.0 | Samsung Electronics Corporation | P2004-0099917 | METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DATA WITH HIGH RELIABILITY IN A MOBILE COMMUNICATION SYSTEM SUPPORTING PACKET DATA TRANSMISSION | KOREA (REPUBLIC OF) | 2005239657     | AUSTRALIA              |
|      |               |          |        |                                 |               |   |                     | 200510129702.0 | CHINA                  |
|      |               |          |        |                                 |               |   |                     | 05026149.4     | European Patent Office |
|      |               |          |        |                                 |               |   |                     |                | INDIA                  |
|      |               |          |        |                                 |               |   |                     | 344041/2005    | JAPAN                  |
|      |               |          |        |                                 |               |   |                     | 2005137244     | RUSSIAN FEDERATION     |
|      | UNITED STATES |          |        |                                 |               |   |                     |                |                        |
| UMTS | TS 25.309     | 9.2.1    | v6.3.0 | Samsung Electronics Corporation | P2004-0090043 | METHOD AND APPARATUS FOR SCHEDULING UPLINK DATA TRANSMISSION USING UE-ID IN A MOBILE COMMUNICATION SYSTEM SUPPORTING UPLINK PACKET DATA SERVICE     | KOREA (REPUBLIC OF) | 200510023010.8 | CHINA                  |
|      |               |          |        |                                 |               |   |                     | 05024127.2     | European Patent Office |
|      |               |          |        |                                 |               |   |                     | 1006/KOL/2005  | INDIA                  |
|      |               |          |        |                                 |               |   |                     | 321420/2005    | JAPAN                  |
|      |               |          |        |                                 |               |   |                     | 2005134199     | RUSSIAN FEDERATION     |
|      | UNITED STATES |          |        |                                 |               |   |                     |                |                        |
| UMTS | TS 25.214     | 5.1.2.5C | v6.6.0 | Samsung Electronics Corporation | P2005-0010870 | METHOD AND APPARATUS FOR SETTING GAIN FACTORS FOR DEDICATED PHYSICAL CHANNELS IN MOBILE TELECOMMUNICATION SYSTEM                                    | KOREA (REPUBLIC OF) | 28754/2006     | JAPAN                  |

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|      |           |                    |        |                                 |               |  |                     |             |                           |
|------|-----------|--------------------|--------|---------------------------------|---------------|--|---------------------|-------------|---------------------------|
| UMTS | TS 25.309 | 9.2.1              | v6.3.0 | Samsung Electronics Corporation | P2004-0093283 | METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DOWNLINK CONTROL INFORMATION IN A MOBILE COMMUNICAATION SYSTEM SUPPORTING UPLINK PACKET DATA SERVICE | KOREA (REPUBLIC OF) | 272,823     | UNITED STATES             |
|      |           |                    |        |                                 |               |  |                     | 2005/003864 | Patent Cooperation Treaty |
| UMTS | TS 25.423 | 8.5.11<br>9.2.1.87 | v6.6.0 | Samsung Electronics Corporation | P2004-073972  | METHOD AND APPARATUS FOR INDICATING PREFERRED LAYER INFORMATION IN MULTIMEDIA BROADCAST/MULTICAST SERVICE (MBMS)   | KOREA (REPUBLIC OF) | 226,398     | UNITED STATES             |
|      |           |                    |        |                                 |               |  |                     | 2005/003059 | Patent Cooperation Treaty |
| UMTS | TS 25.423 | 8.3                | V6.6.0 | Samsung Electronics Corporation | P2004-111534  | METHOD AND APPARATUS FOR PROVIDING MULTIMEDIA BROADCAST/MULTICAST SERVICE ACCORDING TO MOBILITY OF USER EQUIPMENT  | KOREA (REPUBLIC OF) | 2005/004505 | Patent Cooperation Treaty |

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|      |                        |  |        |   |                |  |                           |                    |                              |
|------|------------------------|--|--------|---|----------------|--|---------------------------|--------------------|------------------------------|
|      |                        |  |        |   |                |  |                           |                    |                              |
| UMTS | TS 25.331<br>TS 25.346 | 8.5.27,<br>8.7.6.2,<br>10.2.16i<br>8.3.9 | v700   | Samsung<br>Electronics<br>Corporation     | P2004-073973   | HARD HANDOVER AND<br>APPARATUS FOR USER<br>EQUIPMENT (UE)<br>USING FREQUENCY<br>LAYER<br>CONNERGENCE (FLC)<br>IN A MULTIMEDIA<br>BROADCAST/MULTICA<br>ST SYSTEM (MBMS)<br>SYSTEM | KOREA<br>(REPUBLIC<br>OF) | 05019895.1         | European Patent Office       |
|      |                        |  |        |   |                |  |                           | 224,018            | UNITED STATES                |
|      |                        |  |        |   |                |  |                           | 2005/003024        | Patent Cooperation<br>Treaty |
| UMTS | TS 25.323              | 5.7.2                                    | V6.1.0 | Samsung<br>Electronics<br>Corporation     | P2004-009392   | METHOD FOR<br>RESUMING HEADER<br>DECOMPRESSION IN A<br>MULTIMEDIA<br>BROADCAST/MULTICA<br>ST SERVICE SYSTEM  | KOREA<br>(REPUBLIC<br>OF) | 2005200657         | AUSTRALIA                    |
|      |                        |  |        |   |                |  |                           | 200510062812.<br>X | CHINA                        |
|      |                        |  |        |   |                |  |                           | 05003094.9         | European Patent Office       |
|      |                        |  |        |   |                |  |                           | 97/KOL/05          | INDIA                        |
|      |                        |  |        |   |                |  |                           | 36930/2005         | JAPAN                        |
|      |                        |  |        |   |                |  |                           | 063,348            | UNITED STATES                |
| UMTS | TS 25.433<br>TS 25.309 | 2.18<br>14.1                             | V6.5.0 | Samsung<br>Electronics<br>Corporation     | P2005-27395    | METHOD OF<br>MANAGING RADIO<br>RESOURCES AND<br>NODE B APPARATUS<br>IMPLEMENTING THE<br>SAME   | KOREA<br>(REPUBLIC<br>OF) | 2006/001148        | Patent Cooperation<br>Treaty |
| UMTS | TS 25.413              | 8.36.2,<br>9.2.3.42                      | v6.6.0 | Samsung<br>Electronics<br>Corporation/BST | 200510008014.9 | Inform MBMS Service on<br>Iu Interface   | CHINA                     |                    |                              |

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|            |           |   |        |   |                |  |                           |                |    |
|------------|-----------|---|--------|---|----------------|--|---------------------------|----------------|----|
| UMTS       | TS 33.246 | 6.4.5.1<br>6.3.3.1<br>6.5.3<br>6.4.4<br>6.5.4 | v6.3.0 | Samsung<br>Electronics<br>Corporation/BST | 200410092587.X | Key Management Method<br>for MBMS  | CHINA                     |                |    |
| UMTS       | TS 25.331 | 8.7.3.3.3                                     | v6.2.0 | Samsung<br>Electronics<br>Corporation/BST | 200410088763.2 | A method to receive<br>MBMS service for<br>PMM_IDLE USers                                | CHINA                     |                |    |
| GSM        | TS 23.040 | 9.2.3.24.10                                   | v6.5.0 | Samsung<br>Electronics<br>Corporation/BST | P1999-0009435  | Data transmitting and<br>receiving apparatus and<br>method for digital mobile<br>station | KOREA<br>(REPUBLIC<br>OF) | 6920331        | US |
|            |           |   |        |   |                |  |                           | 127881         | US |
|            |           |   |        |   |                |  |                           | 00104752.3     | CN |
|            |           |   |        |   |                |  |                           | 200510095853.9 | CN |
|            |           |   |        |   |                |  |                           | 00105854.4     | EP |
| 05025482.0 | EP        |   |        |   |                |  |                           |                |    |

\*Patent family information is provided voluntarily. The completeness and accuracy of any patent family information that is provided cannot be guaranteed.

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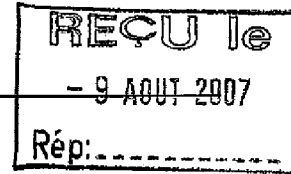


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 Page 1 of 5 (version 5)

**IPR information statement and licensing declaration**

**IPR Holder/Organisation**

Legal Name: SAMSUNG ELECTRONICS CO., LTD. \_\_\_\_\_



**Signatory**

Name: Seung Gun, Park \_\_\_\_\_

Position: Vice President \_\_\_\_\_

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 Suwon-City, Gyeonggi-Do, Korea 442-600 \_\_\_\_\_

Tel.: 82-31-279-4887 \_\_\_\_\_ Fax: 82-31-279-4560 \_\_\_\_\_

E-mail: sukjin.jang@samsung.com \_\_\_\_\_

**IPR information statement**

In accordance with the ETSI IPR Policy, Clause 4.1, I hereby inform ETSI that,

with reference to the technical proposal identified as 3GPP \_\_\_\_\_  
 and/or  
 in relation to Work Item No. \_\_\_\_\_  
 and/or  
 with reference to ETSI Standard No. TS 23.279, 24.008, 25.212, 25.214, 25.321,  
 25.322, 25.331, 25.346, 25.413, 25.423

it is my belief that the IPRs listed in the attached IPR information statement annex are, or are likely to become, Essential IPRs in relation to that Standard.

**IPR licensing declaration**

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in the attached *IPR information statement annex* and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.

The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

This undertaking is made subject to the condition that those who seek licences agree to reciprocate same in respect of the STANDARD in accordance with Clause 6.1 of the ETSI IPR Policy (delete this paragraph if this condition is not required).

The construction, validity and performance of this DECLARATION shall be governed by the laws of France.

**Place, Date:**

07/08/2007  
 (Place, Date)

**Signature:**

S. G. Park  
 (Signed for and on behalf of the SIGNATORY)

Please return this form duly signed to: ETSI Director-General  
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**IPR information statement annex**

| ETSI Standard, Technical Specification or Work Item |                          | Patent Proprietor         | Application No. | Patent No. | Patent Subject/Title  | Country of registration | OPTIONAL INFORMATION - Other Patents/Applications No. in same family |                        |
|---|--------------------------|---------------------------|-----------------|------------|---|-------------------------|--|------------------------|
| Project or Standard name                            | Work Item or Standard No |                           |                 |            |   |                         | Illustrative Specific part of the standard (e.g. Section)            | Version (V.X.X.X)      |
| UMTS  | 3GPP TS 25.212           | Samsung Electronics Corp. | 2002-0047557    | 446509     | Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system | KOREA                   | 2002300503   | AUSTRALIA              |
|   |                          |                           |                 |            |   |                         | 2,397,428  | CANADA                 |
|   |                          |                           |                 |            |   |                         | 02151853.X   | CHINA                  |
|   |                          |                           |                 |            |   |                         | 10236913.5   | GERMANY                |
|   |                          |                           |                 |            |   |                         | 20021460   | FINLAND                |
|   |                          |                           |                 |            |   |                         | 0210215  | FRANCE                 |
| 0218506.4   | UNITED KINGDOM           |                           |                 |            |   |                         |  |                        |
| UMTS  | 3GPP TS 25.331           | Samsung Electronics Corp. | 200410088763.2  |            | A method to receive MBMS service for PMM_IDLE users   | CHINA                   | MI 2002A001821   | ITALY                  |
|   |                          |                           |                 |            |   |                         | 235010/2002  | JAPAN                  |
|   |                          |                           |                 |            |   |                         | 0202405.7  | Sweden                 |
|   |                          |                           |                 |            |   |                         | 218,158  | UNITED STATES          |
| UMTS  | 3GPP TS 25.331           | Samsung Electronics Corp. | 2005-7024473    |            | Method for Initiating Uplink Signaling Proactively by MBMS UE   | KOREA                   | 2005/003663  | PCT                    |
|   |                          |                           |                 |            |   |                         | 04748395.3   | European Patent Office |
|   |                          |                           |                 |            |   |                         | 2006-518551  | JAPAN                  |
|   |                          |                           |                 |            |   |                         | 561,232  | UNITED STATES          |
|   |                          |                           |                 |            |   |                         | 2004/001678  | PCT                    |



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|      |                   |            |        |                                 |                |  |  |       |   |   |
|------|-------------------|------------|--------|---------------------------------|----------------|--|--|-------|---|---|
| UMTS | 3GPP TS<br>25.331 | 8.7.5      | V6.d.0 | Samsung<br>Electronics<br>Corp. | 2006-7013356   |  | METHOD FOR<br>TRANSMITTING MESSAGES<br>RELATED TO A BROADCAST<br>OR MULTICAST SERVICE IN A<br>CELLULAR<br>COMMUNICATIONS SYSTEM                            | KOREA | 2005204205<br>2544270<br>200580001283.0<br>112005000081.8<br>029,702<br>2005/000012 | AUSTRALIA<br>CANADA<br>CHINA<br>GERMANY<br>UNITED STATES<br>PCT           |
| UMTS | 3GPP TS<br>23.279 | 8.6        | V8.0.0 | Samsung<br>Electronics<br>Corp. | 2006-0038753   |  | METHOD AND APPARATUS<br>FOR INTERWORKING VOICE<br>AND MULTIMEDIA SERVICES<br>BETWEEN CSI TERMINAL<br>AND IMS TERMINAL                                      | KOREA | 200610137570.0<br>06016031.4<br>210382/2006<br>496,712                              | CHINA<br>European Patent<br>Office<br>JAPAN<br>UNITED STATES              |
| UMTS | 3GPP TS<br>25.321 | 11.8.1.5   | V6.7.0 | Samsung<br>Electronics<br>Corp. | 2005-0096295   |  | METHOD AND APPARATUS<br>FOR<br>TRANSMITTING/RECEIVING<br>CONTROL INFORMATION OF<br>USER EQUIPMENT FOR<br>UPLINK DATA TRANSMISSION                          | KOREA | 06021474.9<br>546,573<br>2006/004103  | European Patent<br>Office<br>UNITED STATES<br>PCT                         |
| UMTS | 3GPP TS<br>25.413 | 8.36.2     | V6.6.0 | Samsung<br>Electronics<br>Corp. | 200310104465.3 |  | Method and apparatus of<br>information for MBMS session<br>start   | CHINA |   |   |
| UMTS | 3GPP TS<br>25.423 | 8.3.1      | V6.6.0 | Samsung<br>Electronics<br>Corp. | 200410001431.6 |  | Method to inform MBMS related<br>information   | CHINA |   |   |
| UMTS | 3GPP TS<br>25.321 | 11.8.1.3.1 | V6.7.0 | Samsung<br>Electronics<br>Corp. | 2005-0003914   |  | METHOD AND APPARATUS<br>FOR SCHEDULING UPLINK<br>DATA TRANSMISSION FOR<br>MOBILE STATION IN SOFT<br>HANDOVER REGION IN A<br>MOBILE COMMUNICATION<br>SYSTEM | KOREA | 2005229670<br>200510131585.1<br>05024121.5<br>320138/2005<br>263,846                | AUSTRALIA<br>CHINA<br>European Patent<br>Office<br>JAPAN<br>UNITED STATES |
| UMTS | 3GPP TS<br>25.214 | 6.B.3      | V6.7.0 | Samsung<br>Electronics<br>Corp. | 2004-0058452   |  | system and method for<br>controlling a tti in a w-odma<br>communication system<br>supporting enhanced uplink<br>dedicated transport channel                | KOREA | 957,814   | UNITED STATES   |



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|      |                   |                     |        |                                 |              |  |       |                |                           |
|------|-------------------|---------------------|--------|---------------------------------|--------------|--|-------|----------------|---------------------------|
| UMTS | 3GPP TS<br>25.321 | 11.8.1.4            | V6.7.0 | Samsung<br>Electronics<br>Corp. | 2004-0082316 | METHOD AND APPARATUS<br>FOR DATA<br>TRANSMISSION/SCHEDULING<br>FOR UPLINK PACKET DATA<br>SERVICE IN A MOBILE<br>COMMUNICATION SYSTEM                                 | KOREA | 200580020113.7 | CHINA                     |
|      |                   |                     |        |                                 |              |  |       | 05755691.1     | European Patent<br>Office |
|      |                   |                     |        |                                 |              |  |       | 153,490        | UNITED STATES             |
| UMTS | 3GPP TS<br>25.212 | 4.8.4.1             | V6.7.0 | Samsung<br>Electronics<br>Corp. | 2004-0032012 | method and apparatus for<br>determining rate matching<br>parameters for a transport<br>channel in a mobile<br>telecommunication system                               | KOREA | 2005J001855    | PCT                       |
|      |                   |                     |        |                                 |              |  |       | 05009833.4     | European Patent<br>Office |
|      |                   |                     |        |                                 |              |  |       | 121,002        | UNITED STATES             |
| UMTS | 3GPP TS<br>25.331 | 8.1.8.2             | V6.5.0 | Samsung<br>Electronics<br>Corp. | 2005-0118851 | METHOD AND APPARATUS<br>FOR INFORMATION RADIO<br>ACCESS NETWORK OF A<br>SELECTED CORE NETWORK IN<br>FROM USER EQUIPMENT IN<br>A NETWORK SHARING<br>SYSTEM            | KOREA | 2005242125     | AUSTRALIA                 |
|      |                   |                     |        |                                 |              |  |       | 200510128850.0 | CHINA                     |
|      |                   |                     |        |                                 |              |  |       | 05026742.6     | European Patent<br>Office |
| UMTS | 3GPP TS<br>25.331 | 8.5.23              | V6.a.0 | Samsung<br>Electronics<br>Corp. | 2005-0104634 | METHOD AND APPARATUS<br>FOR REPORTING INTER-<br>FREQUENCY MEASUREMENT<br>USING RACH MESSAGE IN A<br>MOBILE COMMUNICATION<br>SYSTEM                                   | KOREA | 1114/KOLNPJ05  | INDIA                     |
|      |                   |                     |        |                                 |              |  |       | 352529/2005    | JAPAN                     |
|      |                   |                     |        |                                 |              |  |       | 2005138022     | RUSSIAN<br>FEDERATION     |
| UMTS | 3GPP TS<br>25.322 | 9.2.2.5,<br>9.2.2.8 | V6.9.0 | Samsung<br>Electronics<br>Corp. | 2005-0037774 | METHOD AND APPARATUS<br>FOR<br>TRANSMITTING/RECEIVING<br>PACKET DATA USING PRE-  | KOREA | 295,722        | UNITED STATES             |
|      |                   |                     |        |                                 |              |  |       | 06009254.1     | European Patent<br>Office |
|      |                   |                     |        |                                 |              |  |       | 417,213        | UNITED STATES             |
| UMTS | 3GPP TS<br>25.331 | 8.1.1.3             | V6.a.0 | Samsung<br>Electronics<br>Corp. | 2005-009765  | METHOD AND APPARATUS<br>FOR ALLOWING USER<br>EQUIPMENT TO DETERMINE<br>VALIDITY OF SYSTEM<br>INFORMATION BEFORE<br>RECEIVING THE SAME IN A<br>NETWORK SHARING SYSTEM | KOREA | 06001721.7     | European Patent<br>Office |
|      |                   |                     |        |                                 |              |  |       | 340,854        | UNITED STATES             |
|      |                   |                     |        |                                 |              |  |       | 06009256.6     | European Patent<br>Office |
| UMTS | 3GPP TS<br>25.322 | 9.2.2.5,<br>9.2.2.8 | V6.9.0 | Samsung<br>Electronics<br>Corp. | 2005-0037774 | METHOD AND APPARATUS<br>FOR<br>TRANSMITTING/RECEIVING<br>PACKET DATA USING PRE-  | KOREA | 417,219        | UNITED STATES             |
|      |                   |                     |        |                                 |              |  |       | 06009256.6     | European Patent<br>Office |
|      |                   |                     |        |                                 |              |  |       | 417,219        | UNITED STATES             |



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|      |                |                   |        |                           |              |  | DEFINED LENGTH INDICATOR IN A MOBILE COMMUNICATION SYSTEM                               |                | 2006/001699 | PCT                    |
|------|----------------|-------------------|--------|---------------------------|--------------|--|---|----------------|-------------|------------------------|
| UMTS | 3GPP TS 25.346 | 5.2.5             | V6.0.0 | Samsung Electronics Corp. | 2005-0092572 |  | METHOD AND APPARATUS FOR FREQUENCY SELECTION AT START OF SERVICE SESSION IN MBMS SYSTEM | KOREA          | 05021524.3  | European Patent Office |
|      |                |                   |        |                           |              |  |   |                | 259,688     | UNITED STATES          |
| UMTS | 3GPP TS 25.331 | 8.1.3.6           | V6.d.0 | Samsung Electronics Corp. | GB 0520360.9 |  | Improvements in RRC connection establishment  | UNITED KINGDOM |             |                        |
| UMTS | 3GPP TS 24.008 | 9.4.4.1, 9.4.17.1 | V6.e.0 | Samsung Electronics Corp. | GB 0517484.2 |  | Improvements in Mobile Telecommunication security                                       | UNITED KINGDOM | 2006/003362 | PCT                    |
| UMTS | 3GPP TS 25.423 | 8.2.1.2           | V6.d.0 | Samsung Electronics Corp. | GB 0612631.2 |  | MBMS enhancements to improve Mobile TV support  | UNITED KINGDOM |             |                        |

\*Patent family information is provided voluntarily. The completeness and accuracy of any patent family information that is provided cannot be guaranteed.

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**IPR information statement and licensing declaration**

**IPR Holder/Organisation**

Legal Name: SAMSUNG ELECTRONICS CO., LTD. \_\_\_\_\_

**Signatory**

Name: Seung Gun, Park \_\_\_\_\_

Position: Vice President \_\_\_\_\_

Department: Telecommunication R&D Center \_\_\_\_\_

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 Suwon-City, Gyeonggi-Do, Korea 442-600 \_\_\_\_\_

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E-mail: jh1.jung@samsung.com \_\_\_\_\_

**IPR information statement**

In accordance with the ETSI IPR Policy, Clause 4.1, I hereby inform ETSI that,  
 with reference to the technical proposal identified as 3GPP \_\_\_\_\_  
 and/or  
 in relation to Work Item No. \_\_\_\_\_  
 and/or  
 with reference to ETSI Standard No. TS 25. 212, TS 25.309, TS 25.321, TS 25.331

it is my belief that the IPRs listed in the attached IPR information statement annex are, or are likely to become, Essential IPRs in relation to that Standard.

**IPR licensing declaration**

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in the attached *IPR information statement annex* and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.

The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.


This undertaking is made subject to the condition that those who seek licences agree to reciprocate the same in respect of the STANDARD in accordance with Clause 6.1 of the ETSI IPR Policy (delete this paragraph if this condition is not required).

The construction, validity and performance of this DECLARATION shall be governed by the laws of France.

**Place, Date:**

24 Jul 2008  
 (Place, Date)

**Signature:**

  
 (Signed for and on behalf of the SIGNATORY)

Please return this form duly signed to: ETSI Director-General  
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## IPR information statement annex

| ETSI Standard, Technical Specification or Work Item |                           |               |                   | Patent Proprietor               | Application No. | Patent No. | Patent Subject/Title   | Country of registration | OPTIONAL INFORMATION: Other Patents/Applications No. in same family* |                    |
|---|---------------------------|---------------|-------------------|---------------------------------|-----------------|------------|--|-------------------------|--|--------------------|
| Project or Standard name                            | Work Item or Standard No. | Section       | Version (V.X.X.X) |                                 |                 |            |  |                         | Patent/Application No.   | Country Applicable |
| UMTS  | 3GPP TS 25.212            | 4.2.3.2       | V.3.2.0           | Samsung Electronics Corporation | 1998-0059068    | 0350459    | INTERLEAVING/DEINTERLEAVING DEVICE AND METHOD FOR COMMUNICATION SYSTEM     | KOREA (REPUBLIC OF)     | 6,493,815  | UNITED STATES      |
|   |                           |               |                   |                                 |                 |            |  |                         | 2353878  | CANADA             |
|   |                           |               |                   |                                 |                 |            |  |                         | ZL99815036.3   | CHINA              |
|   |                           |               |                   |                                 |                 |            |  |                         | 3814146  | JAPAN              |
|   |                           |               |                   |                                 |                 |            |  |                         | 761546   | AUSTRALIA          |
| UMTS  | 3GPP TS 25.331            | 10.3.6.2<br>1 | V.3.8.0           | Samsung Electronics Corporation | 1999-34014      | 0429545    | METHOD FOR COMMUNICATING SCRAMBLING CODE ID IN MOBILE COMMUNICATION SYSTEM | KOREA (REPUBLIC OF)     | 762032   | AUSTRALIA          |
|   |                           |               |                   |                                 |                 |            |  |                         | 2346845  | CANADA             |
|   |                           |               |                   |                                 |                 |            |  |                         | ZL00801691.7   | CHINA              |
|   |                           |               |                   |                                 |                 |            |  |                         | 142489   | ISRAEL             |
|   |                           |               |                   |                                 |                 |            |  |                         | 207743   | INDIA              |
|   |                           |               |                   |                                 |                 |            |  |                         | 3992981  | JAPAN              |
|   |                           |               |                   |                                 |                 |            |  |                         | 2214695  | RUSSIAN FEDERATION |
|   |                           |               |                   |                                 |                 |            |  |                         | 7,221,695  | UNITED STATES      |
| 2001/2906   | SOUTH AFRICA              |               |                   |                                 |                 |            |  |                         |  |                    |
| UMTS  | 3GPP TS 25.309            | 11.1.1        | V.6.2.0           | Samsung Electronics Corporation | 2003-0000466    |            | METHOD FOR DETERMINING DATA RATE USER EQUIPMENT SUPPORTING EUDCH SERVICE   | KOREA (REPUBLIC OF)     | zl200410028203.8   | CHINA              |
|   | 3GPP TS 25.321            | 9.2.5.3.2     | V.6.2.0           |                                 |                 |            |  |                         | 7,209,749  | UNITED STATES      |
|   |                           |               |                   |                                 |                 |            |  |                         | 4038483  | JAPAN              |





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| UMTS      | 3GPP TS<br>25.212 | 4.5 | V.6.0.0 | Samsung<br>Electronics<br>Corporation | 2001-0064742 | 0827147 | TRANSCIVER APPARATUS AND<br>METHOD FOR EFFICIENT HIGH-<br>SPEED DATA RETRANSMISSION<br>AND DECODING IN A CDMA<br>MOBILE COMMUNICATION<br>SYSTEM | KOREA<br>(REPUBLIC<br>OF) | 2002301552    | AUSTRALIA          |
|           |                   |     |         |                                       |              |         |   |                           | 2381719       | UNITED<br>KINGDOM  |
|           |                   |     |         |                                       |              |         |   |                           | 2408875       | CANADA             |
|           |                   |     |         |                                       |              |         |   |                           | ZL 02151899.8 | CHINA              |
|           |                   |     |         |                                       |              |         |   |                           | 0213110       | FRANCE             |
|           |                   |     |         |                                       |              |         |   |                           | 523495        | SWEDEN             |
|           |                   |     |         |                                       |              |         |   |                           | 3566273       | JAPAN              |
| 7,027,782 | UNITED<br>STATES  |     |         |                                       |              |         |   |                           |               |                    |
| UMTS      | 3GPP TS<br>25.212 | 4.5 | V.6.0.0 | Samsung<br>Electronics<br>Corporation | 2001-34488   | 0689551 | APPARATUS AND METHOD FOR<br>TRANSMITTING AND RECEIVING<br>DATA IN A CDMA MOBILE<br>COMMUNICATION SYSTEM   | KOREA<br>(REPUBLIC<br>OF) | ZL02127246.8  | CHINA              |
|           |                   |     |         |                                       |              |         |   |                           | 2378368       | UNITED<br>KINGDOM0 |
|           |                   |     |         |                                       |              |         |   |                           | 2393086       | UNITED<br>KINGDOM1 |
|           |                   |     |         |                                       |              |         |   |                           | 2404313       | UNITED<br>KINGDOM2 |
|           |                   |     |         |                                       |              |         |   |                           | 3753677       | JAPAN              |
|           |                   |     |         |                                       |              |         |   |                           | 7,093,178     | UNITED<br>STATES   |
| UMTS      | 3GPP TS<br>25.212 | 4.5 | V.6.0.0 | Samsung<br>Electronics<br>Corporation | 2001-0044842 | 0539864 | APPARATUS AND METHOD FOR<br>RETRANSMITTING HIGH-SPEED<br>DATA IN A CDMA MOBILE<br>COMMUNICATION SYSTEM  | KOREA<br>(REPUBLIC<br>OF) | 2002300260    | AUSTRALIA          |
|           |                   |     |         |                                       |              |         |   |                           | 2380374       | UNITED<br>KINGDOM  |
|           |                   |     |         |                                       |              |         |   |                           | ZL02148206.3  | CHINA              |
|           |                   |     |         |                                       |              |         |   |                           | 524830        | SWEDEN             |
|           |                   |     |         |                                       |              |         |   |                           | 7,283,509     | UNITED<br>STATES   |
| UMTS      | 3GPP TS<br>25.212 | 4.5 | V.6.0.0 | Samsung<br>Electronics<br>Corporation | 2001-0064114 | 0526525 | TRANSMISSION/RECEIVING<br>APPARATUS AND METHOD FOR<br>PACKET RETRANSMISSION IN A<br>MOBILE COMMUNICATION<br>SYSTEM                              | KOREA<br>(REPUBLIC<br>OF) | 2002301480    | AUSTRALIA          |
|           |                   |     |         |                                       |              |         |   |                           | 2408452       | CANADA             |
|           |                   |     |         |                                       |              |         |   |                           | 02160221.2    | CHINA              |
|           |                   |     |         |                                       |              |         |   |                           | 10248446      | GERMANY            |



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| UMTS    | 3GPP TS<br>25.212 | 4.5 | V.6.0.0 | Samsung<br>Electronics<br>Corporation | 2001-0063519 | 0464325 | Transmitting/receiving apparatus and<br>method for packet retransmission in a<br>mobile communication system | KOREA<br>(REPUBLIC<br>OF) | 2382010        | UNITED<br>KINGDOM |
|         |                   |     |         |                                       |              |         |  |                           | 273,096        | UNITED<br>STATES  |
|         |                   |     |         |                                       |              |         |  |                           | 2002301470     | AUSTRALIA         |
|         |                   |     |         |                                       |              |         |  |                           | 2408131        | CANADA            |
|         |                   |     |         |                                       |              |         |  |                           | 02151562.X     | CHINA             |
|         |                   |     |         |                                       |              |         |  |                           | 200510126992.3 | CHINA             |
|         |                   |     |         |                                       |              |         |  |                           | 10248018       | GERMANY           |
|         |                   |     |         |                                       |              |         |  |                           | 20021829       | FINLAND           |
|         |                   |     |         |                                       |              |         |  |                           | 0212735        | FRANCE            |
|         |                   |     |         |                                       |              |         |  |                           | 2381718        | UNITED<br>KINGDOM |
|         |                   |     |         |                                       |              |         |  |                           | 2396787        | UNITED<br>KINDOM  |
|         |                   |     |         |                                       |              |         |  |                           | MI2002A002167  | ITALY             |
|         |                   |     |         |                                       |              |         |  |                           | 3865680        | JAPAN             |
|         |                   |     |         |                                       |              |         |  |                           | 4064385        | JAPAN             |
| 271,277 | UNITED<br>STATES  |     |         |                                       |              |         |  |                           |                |                   |
| UMTS    | 3GPP TS<br>25.212 | 4.5 | V.6.0.0 | Samsung<br>Electronics<br>Corporation | 2001-0067694 | 0474682 | Transmitting/receiving apparatus and<br>method for packet retransmission in a<br>mobile communication system | KOREA<br>(REPUBLIC<br>OF) | 2002301670     | AUSTRALIA         |
|         |                   |     |         |                                       |              |         |  |                           | 2410107        | CANADA            |
|         |                   |     |         |                                       |              |         |  |                           | 02154261.5     | CHINA             |
|         |                   |     |         |                                       |              |         |  |                           | 200510055804.2 | CHINA             |
|         |                   |     |         |                                       |              |         |  |                           | 10250867.4     | GERMANY           |
|         |                   |     |         |                                       |              |         |  |                           | 20021932       | FILAND            |
|         |                   |     |         |                                       |              |         |  |                           | 0213688        | FRANCE            |
|         |                   |     |         |                                       |              |         |  |                           | 2382284        | UNITED<br>KINDOM  |
|         |                   |     |         |                                       |              |         |  |                           | 0325480.2      | UNITED<br>KINDOM  |
|         |                   |     |         |                                       |              |         |  |                           | MI2002A002326  | ITALY             |
| 3926248 | JAPAN             |     |         |                                       |              |         |  |                           |                |                   |



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|      |                |     |         |                                 |              |         |  |                     | 7,362,733      | UNITED STATES          |
| UMTS | 3GPP TS 25.212 | 4.5 | V.6.0.0 | Samsung Electronics Corporation | 2001-0041405 | 0450968 | Apparatus and method for transmitting and receiving data in a CDMA mobile communication system | KOREA (REPUBLIC OF) | 02128224.2     | CHINA                  |
|      |                |     |         |                                 |              |         |  |                     | 10228809.7     | GERMANY                |
|      |                |     |         |                                 |              |         |  |                     | 0208008        | FRANCE                 |
|      |                |     |         |                                 |              |         |  |                     | 2378870        | GERMANY                |
|      |                |     |         |                                 |              |         |  |                     | 3701263        | JAPAN                  |
|      |                |     |         |                                 |              |         |  |                     | 183,824        | UNITED STATES          |
| UMTS | 3GPP TS 25.212 | 4.5 | V.6.0.0 | Samsung Electronics Corporation | 2001-083064  | 0584426 | INTERLEAVING APPARATUS AND METHOD FOR SYMBOL MAPPING IN AN HSDPA MIBILE COMMUNICATION SYSTEM   | KOREA (REPUBLIC OF) | ZL02159600.X   | CHINA                  |
|      |                |     |         |                                 |              |         |  |                     | 200510116299.8 | CHINA                  |
|      |                |     |         |                                 |              |         |  |                     | 02028629.0     | European Patent Office |
|      |                |     |         |                                 |              |         |  |                     | 3748550        | JAPAN                  |
|      |                |     |         |                                 |              |         |  |                     | 7,200,792      | UNITED STATES          |
| UMTS | 3GPP TS 25.212 | 4.5 | V.6.0.0 | Samsung Electronics Corporation | 2001-066887  | 0744347 | APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING DATA IN A CDMA MOBILE COMMUNICATION SYSTEM     | KOREA (REPUBLIC OF) | 7,280,606      | UNITED STATES          |
|      |                |     |         |                                 |              |         |  |                     | 851,275        | UNITED STATES          |

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