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Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc Proposed change affects: (at least one should be marked with an X) (U)SIM ME X UTRAN / Radio X Core Network									
Source:	Siemens AC	3				<u> </u>	Date:	27/06/2000	
Subject:	Gain Factor	s for TDD Mode							
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Category:FA(only one categorybshall be markedwith an X)D	Correction Correspond Addition of Functional n Editorial mo	ls to a correction i feature modification of fea odification	in an ea ature	rlier relea	se	C Rele	ase:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
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6.5.1 Combination of physical channels in uplink

Figure 4 illustrates the principle of combination how the maximum of two different physical uplink channels are combined within one timeslot. The DPCHs to be combined belong to same CCTrCH, did undergo spreading as described in sections before and are thus represented by complex-valued sequences. First, the amplitude of all DPCHs is adjusted according to UL open loop power control as described in [10]. Each DPCH complex valued spread channel is then separately weighted by a weight factor $\gamma_{\rm L}$ G, and combined using complex addition. After combination of Physical Channels the gain factor $\beta_{\rm l}$ is applied, depending on the actual TFC as described in [10].

In case of different CCTrCH, principle shown in Figure 4 applies to each CCTrCH separately.



Figure 4: Combination of different physical channels in uplink

The values of weight factors γ_i are depending on the spreading factor SF of the corresponding DPCH:

<u>SF of DPCH_i</u>	γ_{i}
<u>16</u>	<u>1</u>
<u>8</u>	$\sqrt{2}$
<u>4</u>	2
<u>2</u>	$2\sqrt{2}$
<u>1</u>	4

The possible values for gain factors β_j (corresponding to *j*-th TFC) are listed in table below:

Signalling value for β_j	Quantized value β_j
<u>15</u>	<u>16/8</u>
<u>14</u>	<u>15/8</u>
<u>13</u>	<u>14/8</u>
<u>12</u>	<u>13/8</u>
<u>11</u>	<u>12/8</u>

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<u>10</u>	<u>11/8</u>
<u>9</u>	<u>10/8</u>
<u>8</u>	<u>9/8</u>
<u>7</u>	<u>8/8</u>
<u>6</u>	<u>7/8</u>
<u>5</u>	<u>6/8</u>
<u>4</u>	<u>5/8</u>
<u>3</u>	<u>4/8</u>
<u>2</u>	<u>3/8</u>
<u>1</u>	<u>2/8</u>
<u>0</u>	<u>1/8</u>