e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

CHANGE REQUEST Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.								
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Source:	Siemens					Date:	2000-02-21	
Subject:	Mapping of	TFCI in downlink	compre:	ssed ma	ode			
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4.3.5.2.2 Downlink compressed mode

For downlink compressed mode, the slot format is changed so that no TFCI bits are lost. The different slot formats in compressed mode do not match the exact number of TFCI bits for all possible TGLs. DTX is therefore used if the number of TFCI fields exceeds the number of TFCI bits. The block of fields, where DTX is used, starts on the first field after the gap. If there are fewer TFCI fields after the gap than DTX bits, the last fields before of the gap are also filled with DTX.

Denote the number of bits available in the TFCI fields of one compressed radio frame by *D* and the number of bits in the TFCI field in a slot by N_{TFCI} . Denote by *E* the first bit to be repeated, $E=N_{first}N_{TFCI}$.

<u> $E = N_{first}N_{TFCI}$, if $N_{first} + TGL \le 15$, else E = 0</u>

If the transmission gap does not extend to the end of the frame $N_{tast} \neq 14$, then *E* corresponds to the number of the first TFCI bit in the slot directly after the TG. Denote the total number of TFCI bits to be transmitted by N_{tot} . If SF \geq 128 then $N_{tot} = 32$, else $N_{tot} = 128$. The following relations then define the mapping:

 $d_k = b_{(k \mod 32)}$

where k = 0, 1, 2, ..., min (E, N_{tot})-1 and, if E< N_{tot} ,

 $d_{k+D-Ntot} = b_{(k \mod 32)}$

where $k = E, ..., N_{tot} - 1$.

DTX bits are sent on d_k where $k = \min(E, N_{tot}), ..., \min(E, N_{tot}) + D - N_{tot} - 1$.