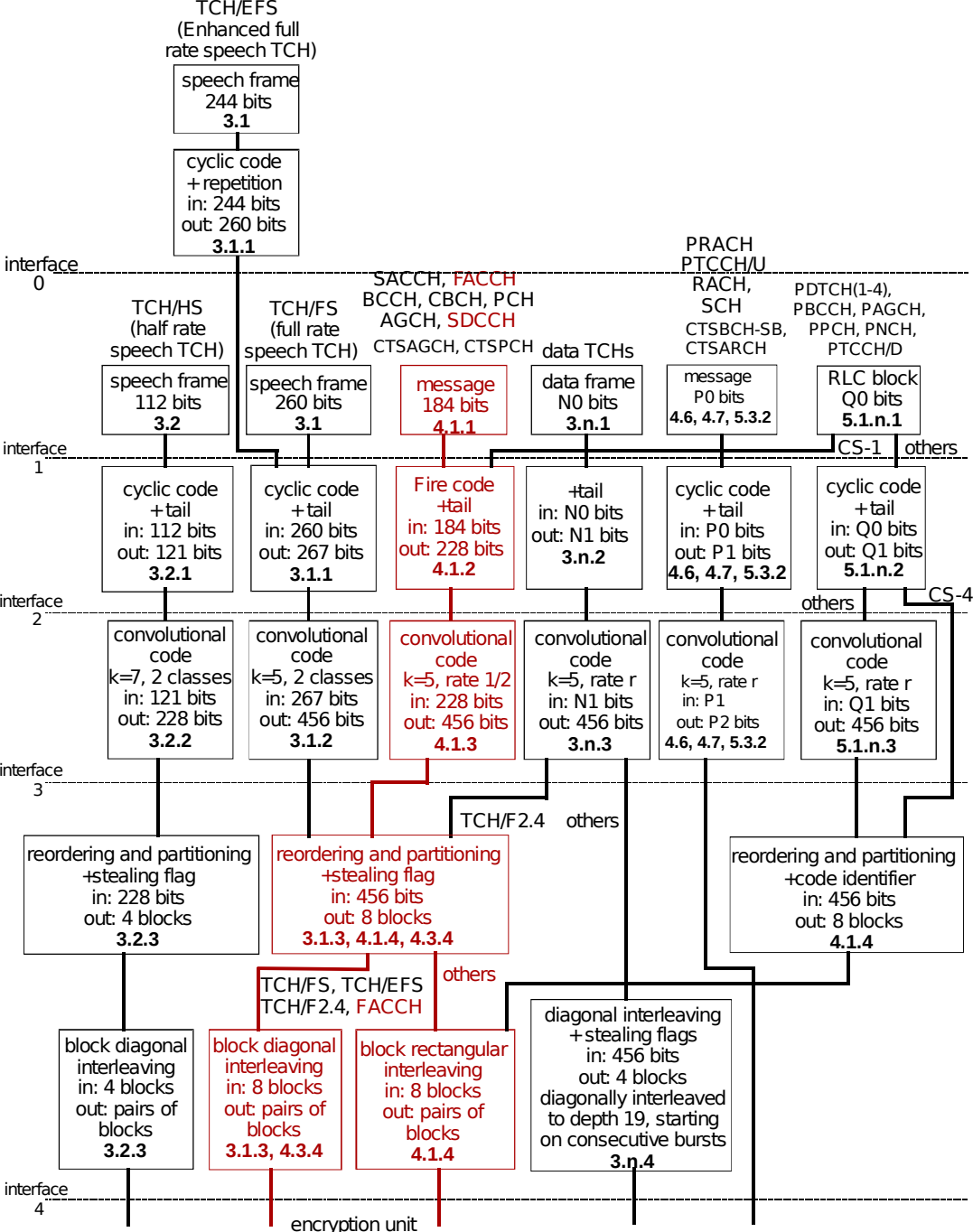
TCH/EFS
(Enhanced full rate speech TCH)
speech frame
244 bits
3.1
cyclic code
+repetition
in: 244 bits
out: 260 bits
3.1.1
interface 0
TCH/HS
(half rate speech TCH)
TCH/FS
(full rate speech TCH)
SACCH, FACCH
BCCH, CBCH, PCH
AGCH, SDCCH
CTSAGCH, CTSPCH
data TCHs
PRACH
PTCCH/U
RACH,
SCH
CTSBCH-SB,
CTSARCH
PDTCH(1-4),
PBCCH, PAGCH,
PPCH, PNCH,
PTCCH/D
speech frame
112 bits
3.2
speech frame
260 bits
3.1
message
184 bits
4.1.1
data frame
N0 bits
3.n.1
message
P0 bits
4.6, 4.7, 5.3.2
RLC block
Q0 bits
5.1.n.1
interface 1
CS-1
others
cyclic code
+tail
in: 112 bits
out: 121 bits
3.2.1
cyclic code
+tail
in: 260 bits
out: 267 bits
3.1.1
Fire code
+tail
in: 184 bits
out: 228 bits
4.1.2
+tail
in: N0 bits
out: N1 bits
3.n.2
cyclic code
+tail
in: P0 bits
out: P1 bits
4.6, 4.7, 5.3.2
cyclic code
+tail
in: Q0 bits
out: Q1 bits
5.1.n.2
interface 2
others
CS-4
convolutional code
k=7, 2 classes
in: 121 bits
out: 228 bits
3.2.2
convolutional code
k=5, 2 classes
in: 267 bits
out: 456 bits
3.1.2
convolutional code
k=5, rate 1/2
in: 228 bits
out: 456 bits
4.1.3
convolutional code
k=5, rate r
in: N1 bits
out: 456 bits
3.n.3
convolutional code
k=5, rate r
in: P1
out: P2 bits
4.6, 4.7, 5.3.2
convolutional code
k=5, rate r
in: Q1 bits
out: 456 bits
5.1.n.3
interface 3
TCH/F2.4
others
reordering and partitioning
+stealing flag
in: 228 bits
out: 4 blocks
3.2.3
reordering and partitioning
+stealing flag
in: 456 bits
out: 8 blocks
3.1.3, 4.1.4, 4.3.4
reordering and partitioning
+code identifier
in: 456 bits
out: 8 blocks
4.1.4
TCH/FS, TCH/EFS
TCH/F2.4, FACCH
others
block diagonal interleaving
in: 4 blocks
out: pairs of blocks
3.2.3
block diagonal interleaving
in: 8 blocks
out: pairs of blocks
3.1.3, 4.3.4
block rectangular interleaving
in: 8 blocks
out: pairs of blocks
4.1.4
diagonal interleaving
+stealing flags
in: 456 bits
out: 4 blocks
diagonally interleaved to depth 19, starting on consecutive bursts
3.n.4
interface 4
encryption unit