

FIG 1

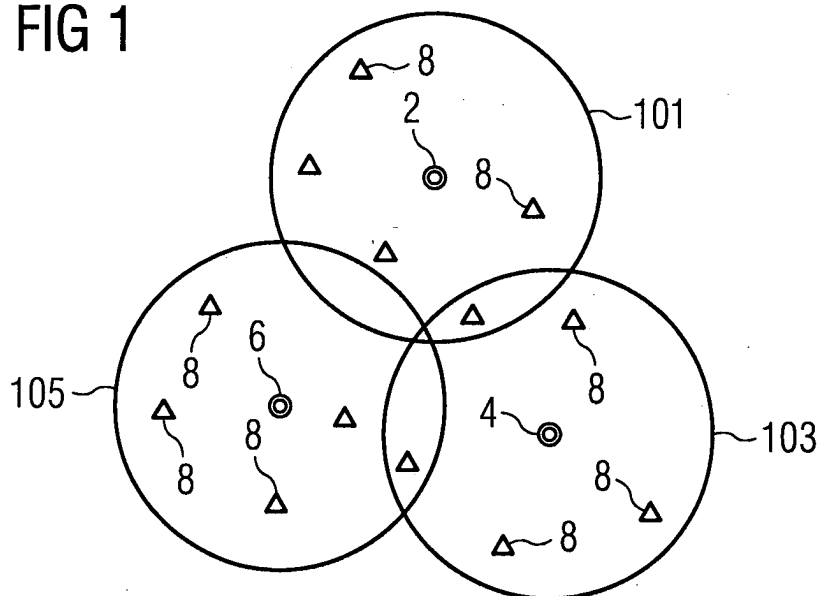


FIG 2

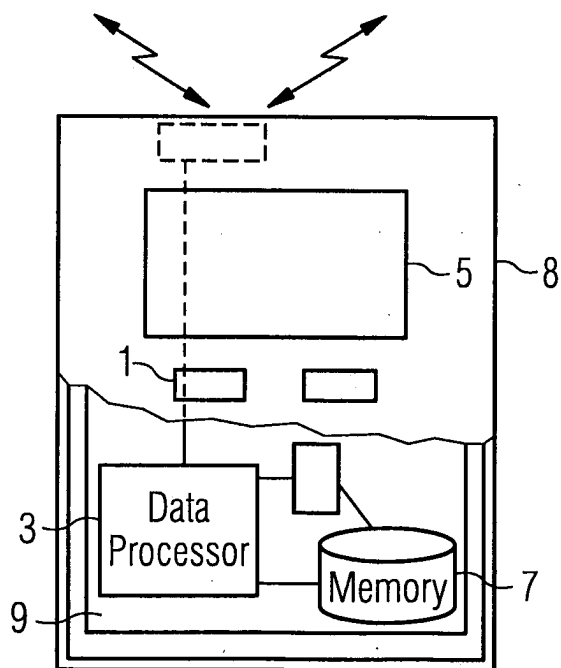
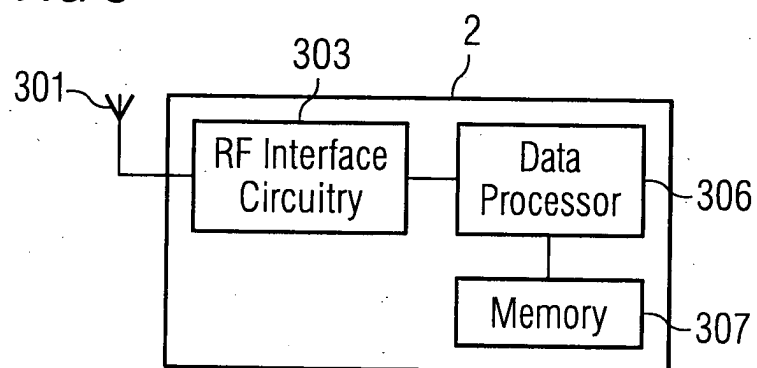


FIG 3



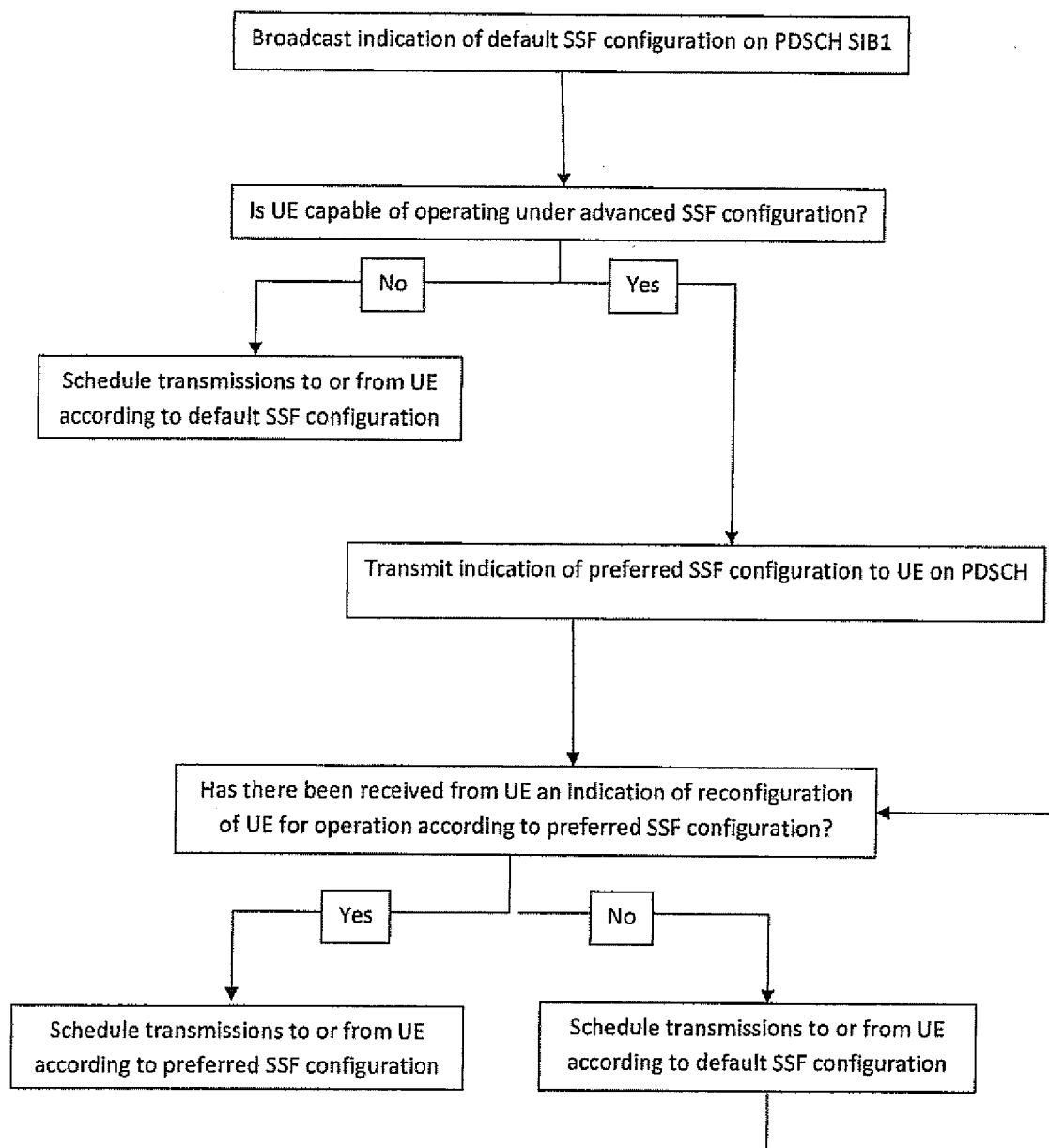


Figure 4

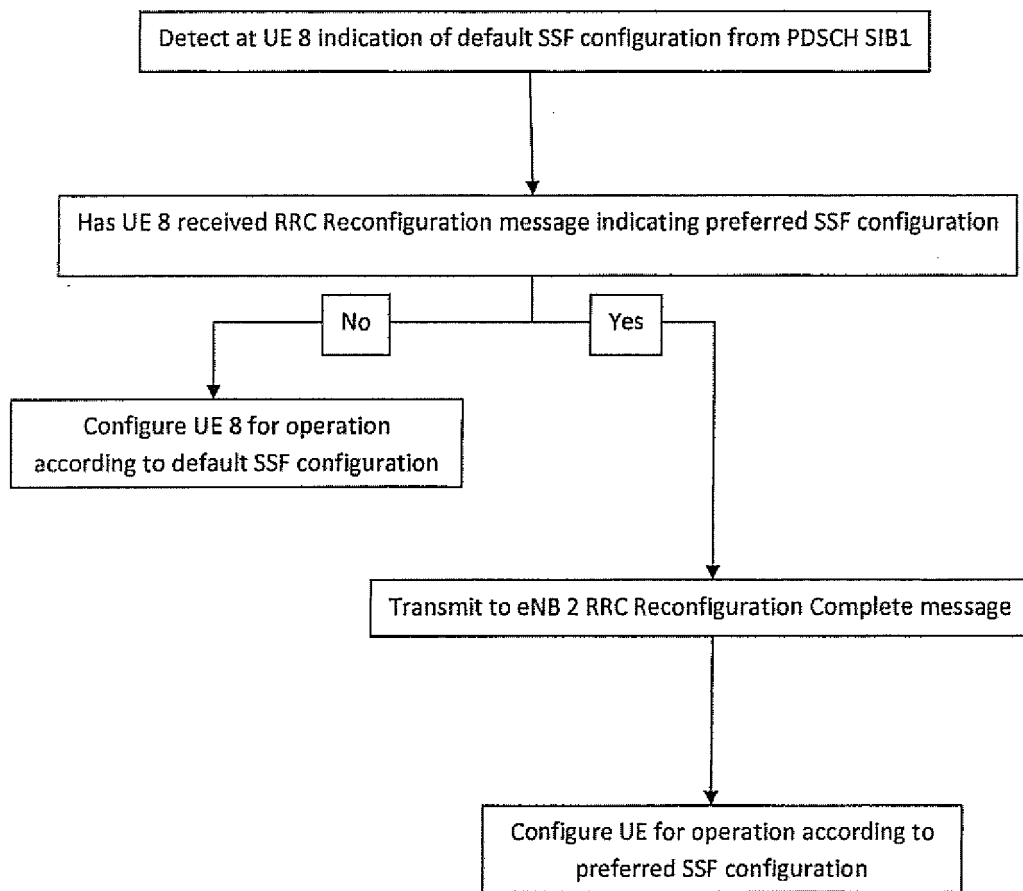


Figure 5

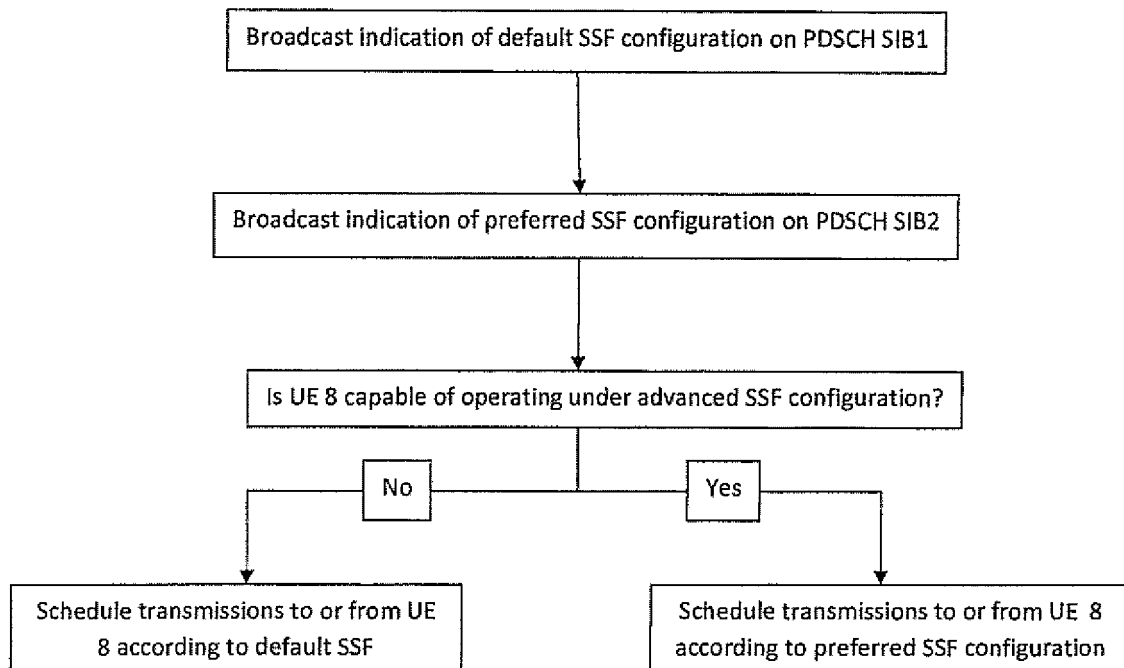


Figure 6

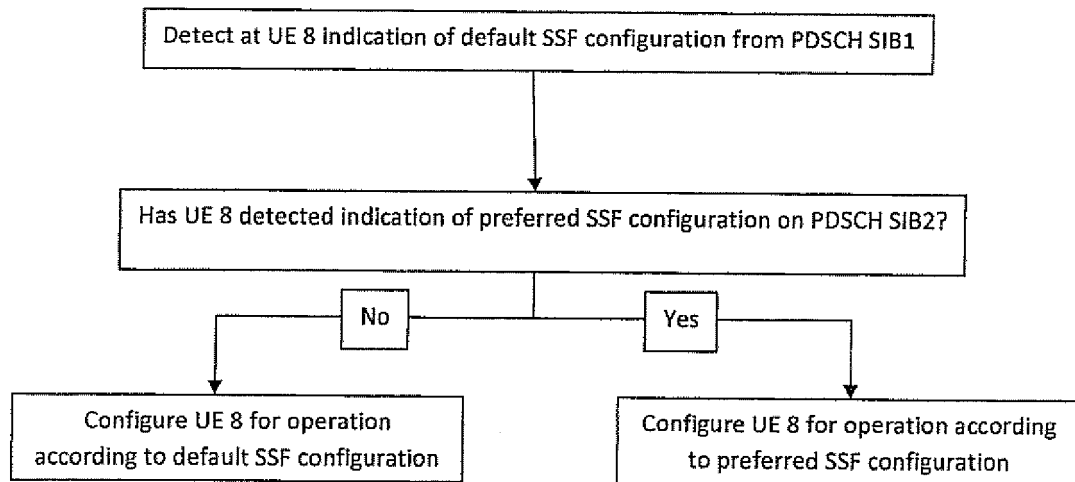


Figure 7

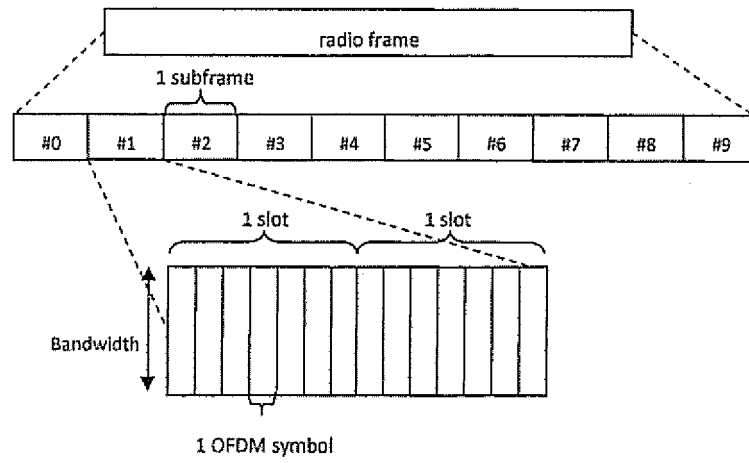


Figure 8

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Figure 9

TDD-Config information element

```

-- ASN1START

TDD-Config ::=
    subframeAssignment
    specialSubframePatterns

SEQUENCE {
    ENUMERATED {
        sa0, sa1, sa2, sa3, sa4, sa5, sa6},
    ENUMERATED {
        ssp0, ssp1, ssp2, ssp3, ssp4, ssp5, ssp6, ssp7,
        ssp8}
}

-- ASN1STOP

```

Figure 12

Special subframe configuration	Normal cyclic prefix in downlink UpPTS		Extended cyclic prefix in downlink UpPTS		DwPTS	Extended cyclic prefix in uplink		Extended cyclic prefix in uplink
	DwPTS	Normal cyclic prefix in uplink	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	
0	3				3			
1	9				8			
2	10	1		1	9	1		1
3	11				10			
4	12				3			
5	3				8	2		2
6	9	2		2	9			
7	10				-	-		-
8	11				-	-		-

Figure 10

FOR NORMAL CP

D	D	D	D	D	D	G	G	G	G	G	G	U	U
D	D	D	D	D	D	G	G	U	U	U	U	U	U
D	D	D	D	D	D	G	U	U	U	U	U	U	U
D	D	D	G	G	G	G	G	G	G	G	U	U	U

FOR EXTENDED CP

D	D	D	D	D	G	G	G	G	G	U	U
---	---	---	---	---	---	---	---	---	---	---	---

Figure 11

SystemInformationBlockType1 message

```

-- ASN1START
SystemInformationBlockType1 ::= SEQUENCE {
    cellAccessRelatedInfo SEQUENCE {
        plmn-IdentityList PLMN-IdentityList,
        trackingAreaCode TrackingAreaCode,
        cellIdentity CellIdentity,
        cellBarred ENUMERATED (barred, notBarred),
        intraFreqReselection ENUMERATED (allowed, notAllowed),
        csg-Indication BOOLEAN,
        csg-Identity CSG-Identity OPTIONAL -- Need OR
    },
    cellSelectionInfo SEQUENCE {
        q-RxLevMin Q-RxLevMin,
        q-RxLevMinOffset INTEGER (1..8) OPTIONAL -- Need OP
    },
    p-Max P-Max OPTIONAL, -- Need OP
    freqBandIndicator INTEGER (1..64),
    schedulingInfoList SchedulingInfoList,
    tdd-Config TDD-Config OPTIONAL, -- Cond TDD
    si-WindowLength ENUMERATED {
        ms1, ms2, ms5, ms10, ms15, ms20,
        ms40,
    },
    systemInfoValueTag INTEGER (0..31),
    nonCriticalExtension SystemInformationBlockType1-v890-IEs
    OPTIONAL
}

SystemInformationBlockType1-v890-IEs ::= SEQUENCE {
    lateNonCriticalExtension OCTET STRING OPTIONAL, -- Need OP
    nonCriticalExtension SystemInformationBlockType1-v920-IEs OPTIONAL
}

SystemInformationBlockType1-v920-IEs ::= SEQUENCE {
    ims-EmergencySupport-r9 ENUMERATED (true) OPTIONAL, -- Need OR
    cellSelectionInfo-v920 CellSelectionInfo-v920 OPTIONAL, -- Need OP
    nonCriticalExtension SEQUENCE {} OPTIONAL -- Need OP
}

PLMN-IdentityList ::= SEQUENCE (SIZE (1..6)) OF PLMN-IdentityInfo

PLMN-IdentityInfo ::= SEQUENCE {
    plmn-Identity PLMN-Identity,
    cellReservedForOperatorUse ENUMERATED (reserved, notReserved)
}

SchedulingInfoList ::= SEQUENCE (SIZE (1..maxSI-Message)) OF SchedulingInfo

SchedulingInfo ::= SEQUENCE {
    si-Periodicity ENUMERATED {
        rf8, rf16, rf32, rf64, rf128, rf256, rf512,
    },
    sib-MappingInfo SIB-MappingInfo
}

SIB-MappingInfo ::= SEQUENCE (SIZE (0..maxSIB-1)) OF SIB-Type

SIB-Type ::= ENUMERATED {
    sibType3, sibType4, sibType5, sibType6,
    sibType7, sibType8, sibType9, sibType10,
    sibType11, sibType12-v920, sibType13-v920, spare5,
    spare4, spare3, spare2, spare1, ...
}

CellSelectionInfo-v920 ::= SEQUENCE {
    q-QualMin-r9 Q-QualMin-r9,
    q-QualMinOffset-r9 INTEGER (1..8) OPTIONAL -- Need OP
}

-- ASN1STOP

```

Figure 13

PhysicalConfigDedicated information element

```

-- ASN1START

PhysicalConfigDedicated ::= SEQUENCE {
    pdsch-ConfigDedicated      PDSCH-ConfigDedicated      OPTIONAL,      -- Need ON
    pucch-ConfigDedicated      PUCCH-ConfigDedicated      OPTIONAL,      -- Need ON
    pusch-ConfigDedicated      PUSCH-ConfigDedicated      OPTIONAL,      -- Need ON
    uplinkPowerControlDedicated UplinkPowerControlDedicated OPTIONAL,      -- Need ON
    tpc-PDCCH-ConfigPUCCH      TPC-PDCCH-Config          OPTIONAL,      -- Need ON
    tpc-PDCCH-ConfigPUSCH      TPC-PDCCH-Config          OPTIONAL,      -- Need ON
    cqi-ReportConfig           CQI-ReportConfig           OPTIONAL,      -- Need ON
    soundingRS-UL-ConfigDedicated SoundingRS-UL-ConfigDedicated OPTIONAL,      -- Need ON
    antennaInfo                CHOICE {
        explicitValue          AntennaInfoDedicated,
        defaultValue           NULL
    } OPTIONAL,      -- Need ON
    schedulingRequestConfig     SchedulingRequestConfig    OPTIONAL,      -- Need ON
    ...
    [ [ cqi-ReportConfig-v920      CQI-ReportConfig-v920      OPTIONAL,      -- Need ON
        antennaInfo-v920          AntennaInfoDedicated-v920   OPTIONAL,      -- Need ON
        NewSSFPattern             ENUMERATED {
            ssp9, ssp10, ssp11, ...
        } OPTIONAL      -- Need ON
    ] ]
}

-- ASN1STOP

```

Figure 14

SystemInformationBlockType2 message

```

-- ASN1START

SystemInformationBlockType2 ::= SEQUENCE {
    ac-BarringInfo SEQUENCE {
        ac-BarringForEmergency BOOLEAN,
        ac-BarringForMO-Signalling AC-BarringConfig OPTIONAL, -- Need OP
        ac-BarringForMO-Data AC-BarringConfig OPTIONAL, -- Need OP
    },
    radioResourceConfigCommon RadioResourceConfigCommonSIB,
    ue-TimersAndConstants UE-TimersAndConstants,
    freqInfo SEQUENCE {
        ul-CarrierFreq ARFCN-ValueEUTRA OPTIONAL, -- Need OP
        ul-Bandwidth ENUMERATED (n6, n15, n25, n50, n75, n100) OPTIONAL, -- Need OP
    },
    additionalSpectrumEmission AdditionalSpectrumEmission,
    mbsfn-SubframeConfigList MBSFN-SubframeConfigList OPTIONAL, -- Need OR
    timeAlignmentTimerCommon TimeAlignmentTimer,
    ...,
    lateR8NonCriticalExtension OCTET STRING OPTIONAL, -- Need OP
    [ ssac-BarringForMMTEL-Voice-r9 AC-BarringConfig OPTIONAL, -- Need OP
      ssac-BarringForMMTEL-Video-r9 AC-BarringConfig OPTIONAL, -- Need OP
    ]
    NewSSFPattern ENUMERATED {
        ssp9, ssp10, ssp11, ... } OPTIONAL -- Need ON
}

AC-BarringConfig ::= SEQUENCE {
    ac-BarringFactor ENUMERATED {
        p00, p05, p10, p15, p20, p25, p30, p40,
        p50, p60, p70, p75, p80, p85, p90, p95},
    ac-BarringTime ENUMERATED (s4, s8, s16, s32, s64, s128, s256, s512),
    ac-BarringForSpecialAC BIT STRING (SIZE(5))
}

MBSFN-SubframeConfigList ::= SEQUENCE (SIZE (1..maxMBSFN-Allocations)) OF MBSFN-SubframeConfig

-- ASN1STOP

```

Figure 15