Standard QCI Support

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Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Product(s) or Functional Area	5G-UPF
Applicable Platform(s)	VPC-SI
Feature Default Setting	Enabled – Always-on
Related Changes in this Release	Not Applicable
Related Documentation	*UCC 5G UPF Configuration and Administration Guide*

Revision History

Revision Details	Release
First introduced.	2021.02.0

Feature Description

The 5G-UPF supports new standard QoS Class Index (QCIs) based on 3GPP TS 23.203 Release 12, for Mission Critical and Push-to-Talk (MC/PTT) applications.

As part of this feature, the following functionalities are supported:

- Establishing a LTE/WiFi/5G-NR call with default bearer QCI/QFI with new standard non-GBR QCIs (69, 70 and 80). These are MC-PTT and 5G-NSA QCIs.
- Establishment of dynamic rule with new standard GBR/non-GBR QCI (65, 66, 69, 70, 80, 82, 83).
- Support for Extended QoS Bit Rates for DCNR-enabled UEs with new standard QCIs (80, 82, and 83).
- LTE to 5G and 5G to LTE HO, WiFi to 5G and 5G to WiFi HO, and LTE to WiFi and WiFi to LTE HO are supported.
- DSCP Marking in UL and DL direction based on new standard QCIs.

Limitations

In this release, predefined rules with the new standard QCIs aren't supported.

Configurations

There is no configuration (or License) required at SMF or UPF to enable new standard QCIs.

At SMF, the following configuration is required to enable Extended QoS Bit Rates.

```
configure
  profile dnn name
    dcnr { true | false }
    end
```

- **dcnr**: Specifies to enable dual connectivity with new radio (DCNR).