



Ministry of Economic Affairs
and Climate Policy - NL



Critical communications

*International harmonization &
national policy.
Strategy, themes and vision*

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for "KMBG goes international"

Schiphol, 13 nov 2019



Introduction

Business specific communications policy partners in NL:

- › Ministry of Economic Affairs and Climate Policy, The Hague
dg Digital Economy
- › Radiocommunications Agency, in Groningen,
is responsible for allocating frequency space and monitoring its use.
- › The Netherlands Authority for Consumers and Markets (ACM) *contributes to realizing a healthy economy by ensuring that markets work well for people and businesses.*



Definition

What is the definition and demarcation of business critical & mission critical ?

- > Quality of service
- > Reliability
- > Customized services
- > Private networks
- > coverage , incl indoor coverage
- > broadband networks, narrowband networks
- > etc.



Enterprise specific demand

- › In the NL we see that MNOs leave a part of enterprise specific demand unanswered.
- › We see an increase in enterprise specific demand.
- › Having the right balance of setting spectrum aside for business specific use is an important issue for spectrum policy.
- › For mission critical we have a separate regime (NJP)



Timing of transitions

- › Digitization in general
- › 5G technology and equipment
- › National rhythm of awarding spectrum bands
- › National CC investment rhythms
- › Strategic choice how to organize your future critical network?
Dedicated / full service offering / hybrid ?



International spectrum policy bodies

domain	European Union	Europe large incl neighbours	Worldwide
Spectrum	EC RSC RSPG	CEPT-ECC - PPDR - Rail	ITU-R/WRC NATO- NJFA



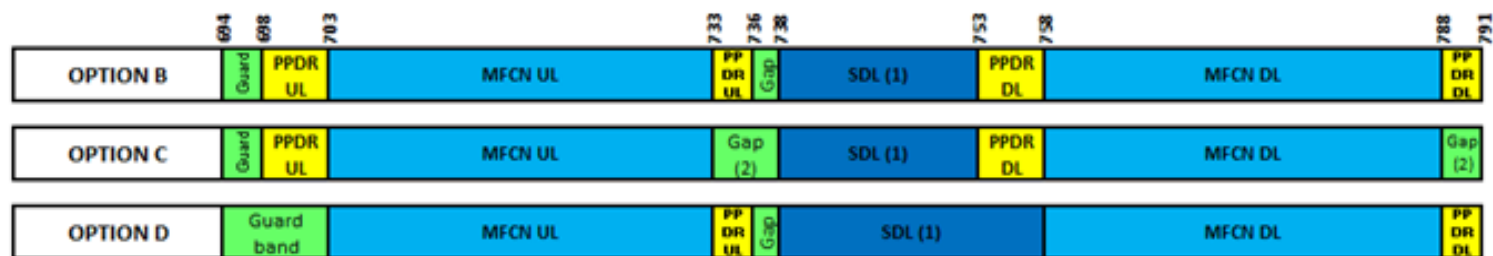
ECC / Project Team 49 – PPDR – public safety

- 700 MHz flexible options

PPDR in spectrum harmonised for MFCN (ECC/DEC(15)01)



PPDR dedicated spectrum:



PPDR in a combination of MFCN and dedicated spectrum:





ECC / PT 56 – Rail - FRMCS

- › Future Railway Mobile Communication System (successor GSM-R)
- › PT started in febr. 2017
- › Discussions on mix of organizational options



Policy choices in the NL

- › For mission critical: Needs Justification Plans. Increase of shared use.

Concerning designating spectrum for business specific in NL:

- › 2 x 5 MHz license free - 1875 - 1880 MHz (with duplex 1780 - 1785 MHz)
- › 3,5 GHz band, now enterprise specific use
From 2026: 2 x 50 MHz continues for enterprise specific use
- › the 700 MHz band, auction 2020/Q2. Offshore / North sea separate.
8 MHz (x2) set aside for public safety
- › 26 GHz, soon a market consultation. Which arrangement for verticals?
- › 450 – 470 MHz (PAMR, 2 x 3 MHz). New awarding in 2024.



Concluding

- › Combination of multiple transitions makes policy and investment for cc complex
- › More sharing is the returning strategic theme
- › Flexible harmonization outcomes and option menus incl hybrid are desirable
- › Let us invest further in a think model and vision for cc
- › Happy with associations like BTG and Agurre



Thank you

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ANNEXes



Abbreviations & URLs (1)

Spectrum policy bodies

- EC - European Commission - <https://ec.europa.eu/digital-single-market/en/content/eus-spectrum-policy-framework>
- RSC – Radio Spectrum Committee - <https://ec.europa.eu/digital-single-market/en/radio-spectrum-committee-rsc>
- RSPG - The Radio Spectrum Policy Group (RSPG) is a high-level advisory group that assists the European Commission in the development of radio spectrum policy. <https://rspg-spectrum.eu/category/news/>
- CEPT – European Conference of Postal and Telecommunications Administrations - <https://cept.org/cept/>
 - ECC - Electronic Communications Committee - <https://cept.org/ecc/>
 - PT = project team
- ITU-R - International Telecommunication Union / Radiocommunication Sector - <https://www.itu.int/en/ITU-R/Pages/default.aspx>
 - WRC19 - World Radiocommunication Conference 2019 - <https://www.itu.int/en/ITU-R/conferences/wrc/2019/Pages/default.aspx>
- [NJFA](#) - Nato Joint Frequency Agreement –
- NJP – Needs Justification Plan (in NL: *behoefteonderbouwingsplan of BOP*)



ANNEX: Overview standardization bodies

Domain	EU-COM	Europe + neighbours	Worldwide
Standardization equipment / products	EG's RED/EMC adco's	ETSI CENELEC	IEC/CISPR ITU-T 3GPP ISO



Abbreviations and URLs (2)

Equipment and standardization bodies:

EG ([TCAM](#)): Commission expert group on radio equipment

[ADCO- RED](#): market surveillance authorities (incl equipment)

[ETSI](#): European Standardisation Organisation dealing with telecommunications, broadcasting and other electronic communications networks and services

[CENELEC](#): European Standardisation Organisation in the electrotechnical engineering field

[IEC](#): International Electrotechnical Commission

[CISPR](#): International Special Committee on Radio Interference

[ITU-T](#): ITU Telecommunication Standardization Sector

[3GPP](#): 3rd Generation Partnership Project (covers cellular telecommunications technologies)

[ISO](#): International Organization for Standardization (covering almost every industry)