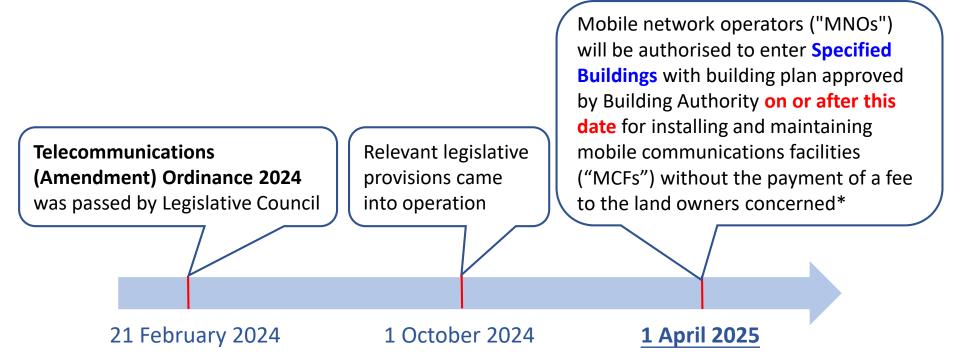
Code of Practice for the Provision of Mobile Access Facilities in Specified Buildings for the Provision of Public Mobile Radiocommunications Services ("Mobile CoP")

Telecommunications Regulatory Affairs Advisory Committee 4 February 2025



Background



 Specified Buildings covers new and redeveloped commercial, industrial, residential (excluding buildings for residence of a single family) and hotel buildings



Mobile CoP

- Provides practical guidance to MNOs on the installation, operation and maintenance of MCFs inside Specified Buildings for the provision of mobile services
- Provides guidance to the developers and construction professionals on the appropriate space and associated access facilities that should be made available in Specified Buildings
- Relevant stakeholders have been consulted, including the mobile telecommunications industry, building developers, construction professional bodies and property management industry, as well as relevant Government departments

Major aspects

- (a) Criteria for provision of space and mobile access facilities ("MAFs") in Specified Buildings
- (b) Technical requirements on the provision of floor space and MAFs
- (c) Provision of indoor mobile coverage
- (d) Obligations of the parties (including MNOs, building developers, building owners, Incorporated Owners / Building Management Offices)

(a) Criteria for Provision of Space and MAFs

Sections 1 to 3 of Mobile CoP

 Specified Buildings meeting specified size criteria ("Criteria") are required to reserve space and provide MAFs :

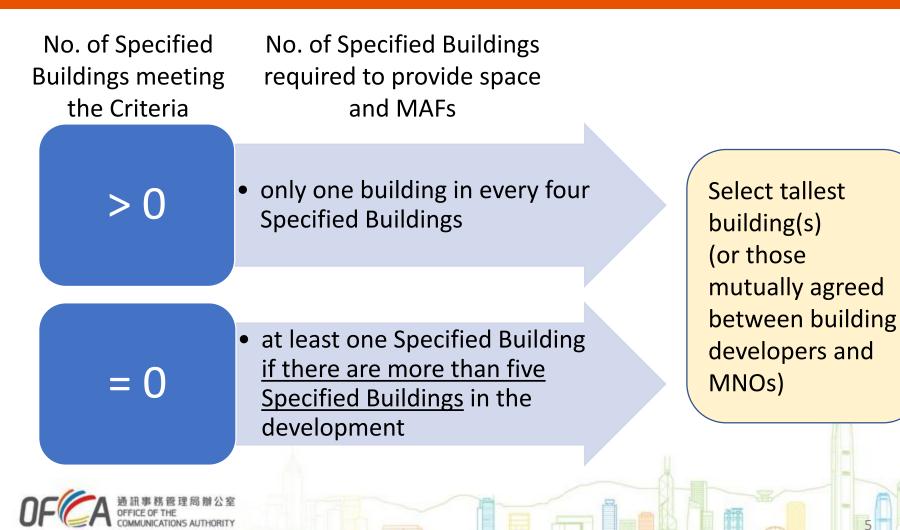


Building Types	Criteria
Commercial/industrial	> 3 000 m ² of usable floor space
Residential	> 50 residential flats
Hotel	> 75 hotel rooms

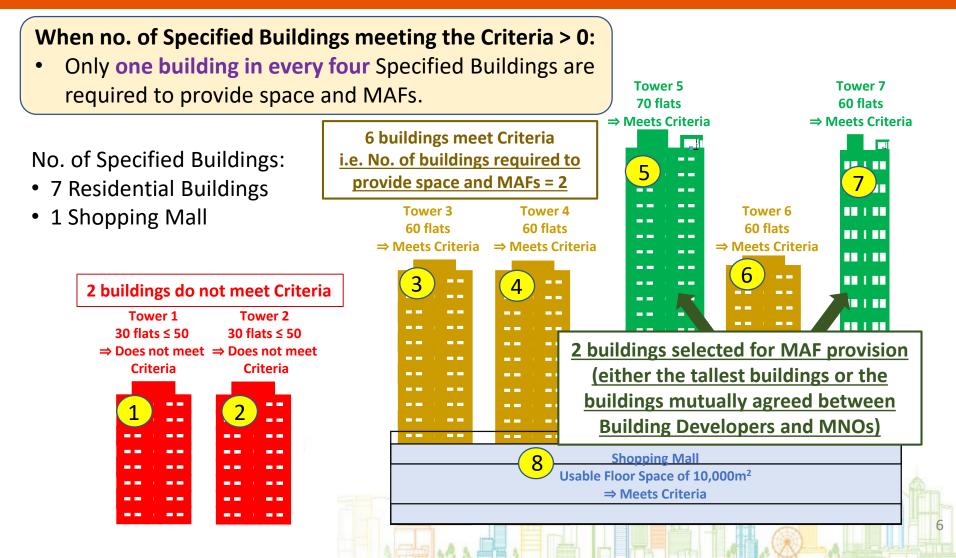




Provision of Space and MAFs - Multiple-Building Development



Multiple-Building Development Example 1: Some Specified Buildings Meet the Criteria



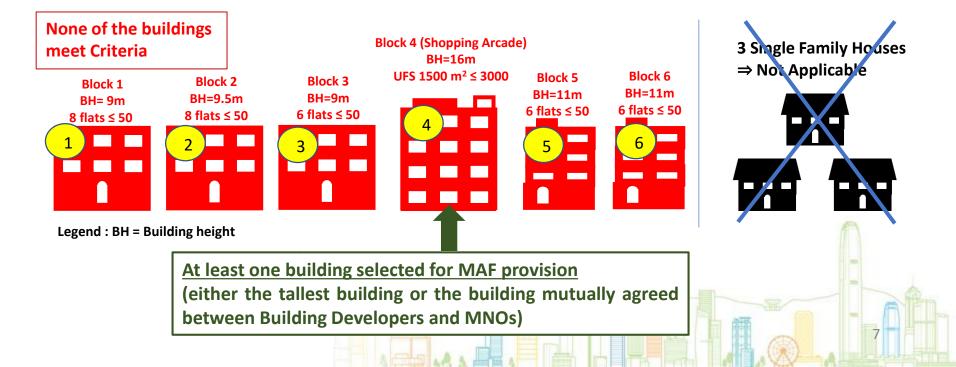
Multiple-Building Development Example 2: No Specified Buildings Meet the Criteria

No. of Specified Buildings:

- 5 Residential Blocks
- 1 Shopping Arcade
 Not applicable:
- 3 Single Family Houses

When no. of Specified Buildings meeting the Criteria = 0:

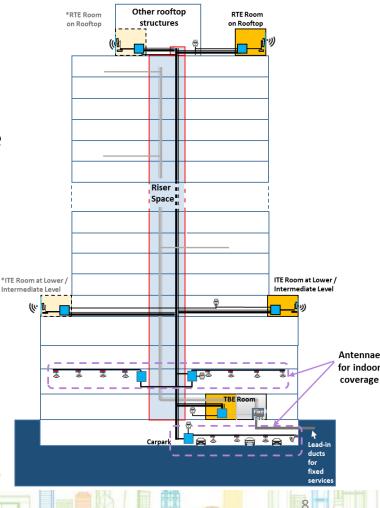
at least **one** Specified Building has to reserve floor space and provide MAFs <u>if there are more than five Specified</u> <u>Buildings</u> in such new development.



(b) Technical Requirements on the Provision of Floor Space and MAFs

Sections 5 to 9 of Mobile CoP

- MAFs should be integrated in the design of Specified Buildings in a holistic manner
- 10 30 m² of floor space (depending on the size and type) should be made available in each of
 - the rooftop;
 - a lower / intermediate level (applicable to buildings exceeding 175 m in height); and
 - telecommunications and broadcasting equipment (TBE) room
- Other aspects of practical guidance on technical requirements on the provision of space and MAFs are also given

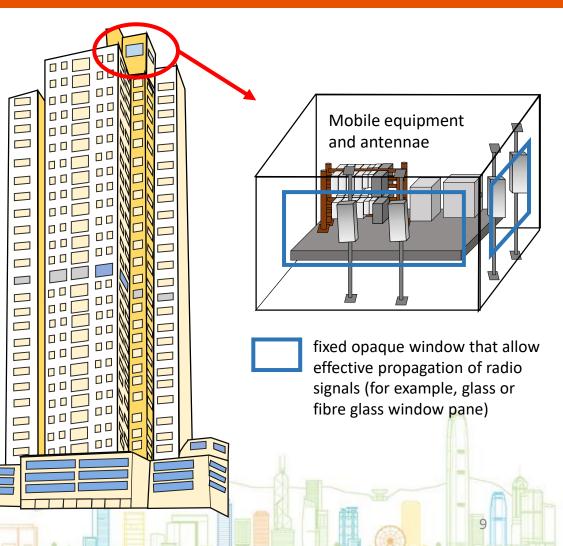


Rooftop Telecommunications Equipment Room ("RTE Room")

Section 6 of Mobile CoP – RTE Room

- For MCFs on rooftop
- Integrated in the design of the building
- Room location
 - Maximise mobile coverage
 - Adequate and reasonable access pathways
- In case of genuine difficulty to locate at rooftop, may locate at a level not lower than 90% of the building height

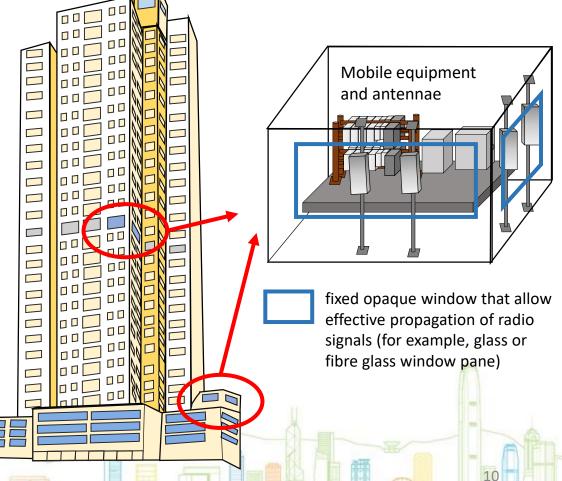




Intermediate Telecommunications Equipment Room ("ITE Room")

Section 7 of Mobile CoP – ITE Room

- Required for Specified Buildings with building height exceeding 175m
- For MCFs at a lower or intermediate level
- Room location
 - Maximise mobile coverage
 - Adequate and reasonable access pathways

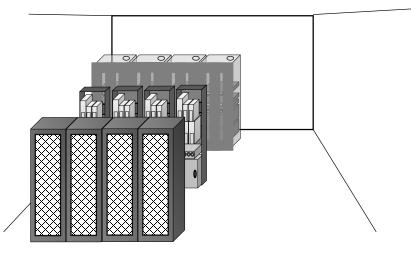




TBE Room for Provision of MAF

Section 8 of Mobile CoP – TBE Room

- Common TBE Room shared by MNOs and FNOs or separate TBE room for MAFs, for effective use of reserved space and access facilities
- Should put as much mobile equipment as practicable in order to save space and reduce floor loading in RTE room and ITE room
- For common TBE room, building developers should make relevant demarcation (e.g. different colour making on the ground) for respective use by MNOs and FNOs



Mobile equipment installed in equipment racks

FNOs means fixed network operators.



(c) Provision of Indoor Mobile Coverage

Section 10 of Mobile CoP

- Mobile CoP provides practical guidance on the arrangements for provision of indoor mobile coverage by MNOs in Specified Buildings
- Building Developers
 - should coordinate with MNOs during the building design stage on the requirements of indoor mobile coverage, and provide the necessary space and access facilities for MNOs to install their MCFs

MNOs

 should, to the extent that is economically reasonable and technically feasible, provide reasonable indoor coverage to areas of buildings which are not exclusively occupied or used by any person at the request of the Building Developers



(d) Obligations of Building Developers, Building Owners, Incorporated Owners ("IOs") / Building Management Offices ("BMOs")

Sections 11 of Mobile CoP

During design phase of Specified Buildings

After completion of Specified Buildings

- Building developers should
 - coordinate with MNOs on the requirement of MAFs and keep MNOs informed of new development projects in a timely manner
 - seek and to the extent possible take into account MNOs' inputs on MAF structures for including as part of the building plans for BA's approval
 - provide the space and MAFs and reserve adequate and reasonable access pathway

• Building owners, IO/BMO should

- allow MNOs' access to the building concerned for site survey, installation, operation and maintenance of MCFs, including pathway through the common areas of the development for access to the building
- ensure that access to the common areas is not obstructed
- responsible for maintenance and repair of MAFs and access pathways
- endeavour to facilitate a late joining MNO to use the space and MAFs; while extra space or facilities are subject to commercial agreement

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(d) Obligations of MNOs

Sections 12 of Mobile CoP

During design phase of Specified Buildings

After completion of Specified Buildings

- MNOs should
 - nominate and appoint a coordinator to coordinate all the requirements from the interested MNOs and liaise with the developer on MNOs' MAF requirements
 - make sure the efficient use of reserved space and sharing of MCFs as far as practicable and technically feasible when formulating their MAF requirements
- MNOs should
 - be responsible for installation, operation and maintenance of their MCFs
 - upon request of developer / IO/BMO, enter into agreement, undertaking or other instrument to demarcate respective duties and responsibilities, as well as administrative arrangements
 - do as little damage as possible, and full compensation for any physical damage to the Specified Building should be paid by MNO concerned

Resources

Mobile CoP promulgated by CA

<u>https://www.coms-auth.hk/filemanager/statement/en/upload/663/mobile-cop_e.pdf</u>

OFCA's Webpage on Installation of Mobile Communications Facilities in Specified Buildings

 <u>https://www.ofca.gov.hk/en/industry_focus/infrastructures/mobile_communi</u> <u>cations_facilities_in_specified_buildings/index.html</u>



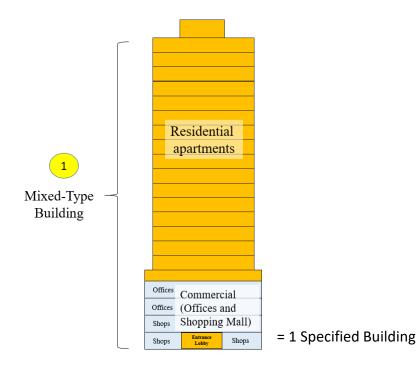


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Backup Slides



Mixed-type Building

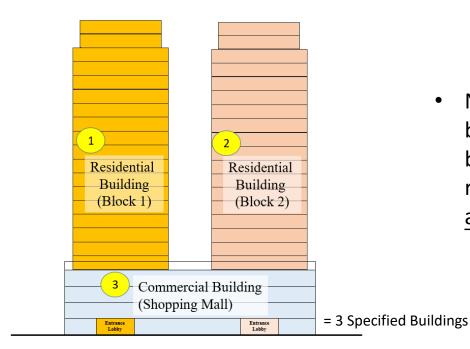


- A single building consisting of mixed uses is referred to as a "mixed-type building", the building as a whole as one building for assessment
- The requirements corresponding to the type of use of the building that fits the Criteria and would provide the largest space and MAFs should be followed.



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Development with Multiple Buildings on Top of Common Base Structure



 New development comprising multiple buildings erected on top of a common base structure, they are each to be regarded as a <u>separate building</u> and to be <u>assessed individually</u>

