

Code of Practice for Info-communication Facilities in Buildings (COPIF 2013)

Industry Briefing

9 May 2013

Programme

- **Opening Address**
- **Briefing on COPIF 2013**
 - Changes that are applicable to all developments
 - Changes that are applicable to new developments
- **Q & A**

What is the COPIF?

- **Stipulates the duties of Telecom Licensees, Building Developers and Owners with respect to the:**
 - Provision
 - Maintenance; and
 - Utilisation**of space and facilities used to provide information services within a development**
- **First published in 2000, last revised in 2008**

Meeting Future Communication Needs

- **Expectations of End Users**
 - Seamless broadband connectivity, wired and wireless, within their homes, offices and public areas
- **Aim of COPIF 2013**
 - Future-ready buildings with infocomm infrastructure that meets users' needs for wired and wireless broadband services
 - Better connected homes with greater ease of access to future communication technologies

**COPIF changes
which are applicable to
ALL developments,
new and existing**

Access to relevant space & facilities

- Developer or owner shall:
 - Provide appropriate access panels or openings, where it installs false ceiling & obstructs any access to the space & facilities (e.g. cable trays);
 - Provide the necessary means for the licensee to access facilities located at a height of more than 4m;
- Not impose charge or rent, including additional insurance coverage
 - Deposit, where imposed:
 - must be refundable;
 - promptly refunded upon completion of works; and
 - be of a reasonable amount.

Location of MDF room / TER

- To be located on the **1st or 2nd storey** of the development;
- Where there are multiple basement levels, MDF/TER may be located on the **uppermost basement** level provided that:
 - In the event of flooding, developer or owner to bear costs to:
 - restore the telecom services to the development;
 - replace such damaged installation, plant or systems of the licensee;
 - notify tenants or residents of the development that telecom services are affected; and
 - relocate the MDF room to another location, including all costs associated with the relocation.

Mobile Deployment Space (MDS)

- **Location of MDS can be in any suitable unused space, e.g.**
 - Carpark, Rooftop, Void Deck
- Any additional space required by the mobile operators, beyond the MDS, will be commercially negotiated between mobile operators and the developer/owner
- Electricity consumed by mobile operators' equipment to be borne by mobile operators.

Mobile Deployment Space for residential buildings

Total number of residential units in the development	Mobile Deployment Space (m ²)		Min. height of mobile deployment space (m)
	Where space is provided as a single space	Where space is provided as 2 or more separate space	
< 80	0		NA
80 to 200	18	24	3
201 to 600	36		
601 to 1500	54		
> 1500	To consult IDA		

Mobile Deployment Space for non-residential buildings

Total mobile coverage area ('000 m ²)	Mobile Deployment Space (m ²)		Min. height of mobile deployment space (m)
	Where space is provided as a single space	Where space is provided as 2 or more separate space	
< 2	0		NA
> 2 to ≤ 6	18	24	3
> 6 to ≤ 20	36		
> 20 to ≤ 100	54		
> 100 to ≤ 200	72		
> 200	To consult IDA		

Mobile Deployment Space (in carpark)



Waiver for Mobile Deployment Space

- Developer or owner may write to IDA to request reduction or waiver of MDS with valid justification.
- IDA will review the request on a case-by-case basis, taking into consideration:
 - The needs of single-user vs multi-user buildings
 - Space constraints in older buildings

Sealing of Underground Pipes

- **Applicable to existing developments and those under construction**
- **Underground pipes entering the MDF room or TER are in an enclosed room (e.g. air-conditioned)**

Stage of completion of construction	Timeframe for sealing
Buildings & developments under construction as at the Effective Date & the TOP has not been issued	Prior to issuance of the TOP
Buildings & developments that have been issued with the TOP as at Effective Date	Within 2 years of the Effective Date

Sealing of Underground Pipes

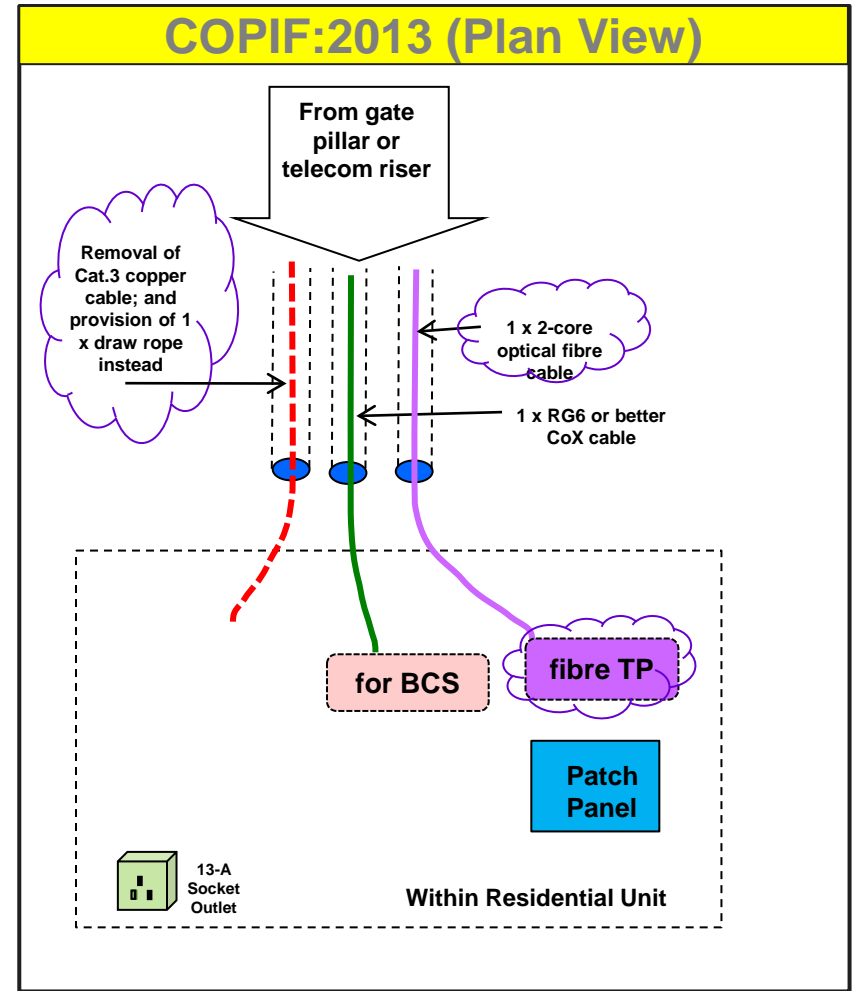
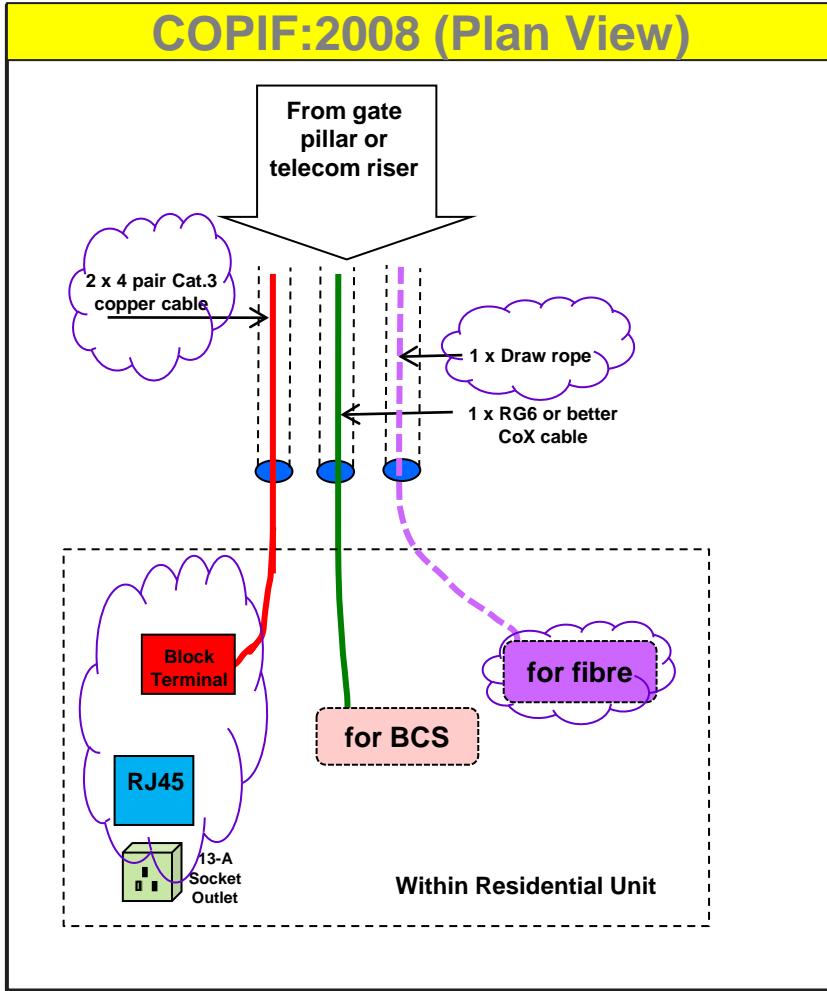


**COPIF changes
which are applicable to
NEW developments**

Installation of Optical Fibre Cables in residential developments

- A 2-core optical fibre terminating into a fibre interface point (*in the gate pillar or telecom riser*) and another fibre termination point (*in the utility room or closet*)
- Fibre Readiness Certification to be obtained prior to TOP.

Comparison of Changes

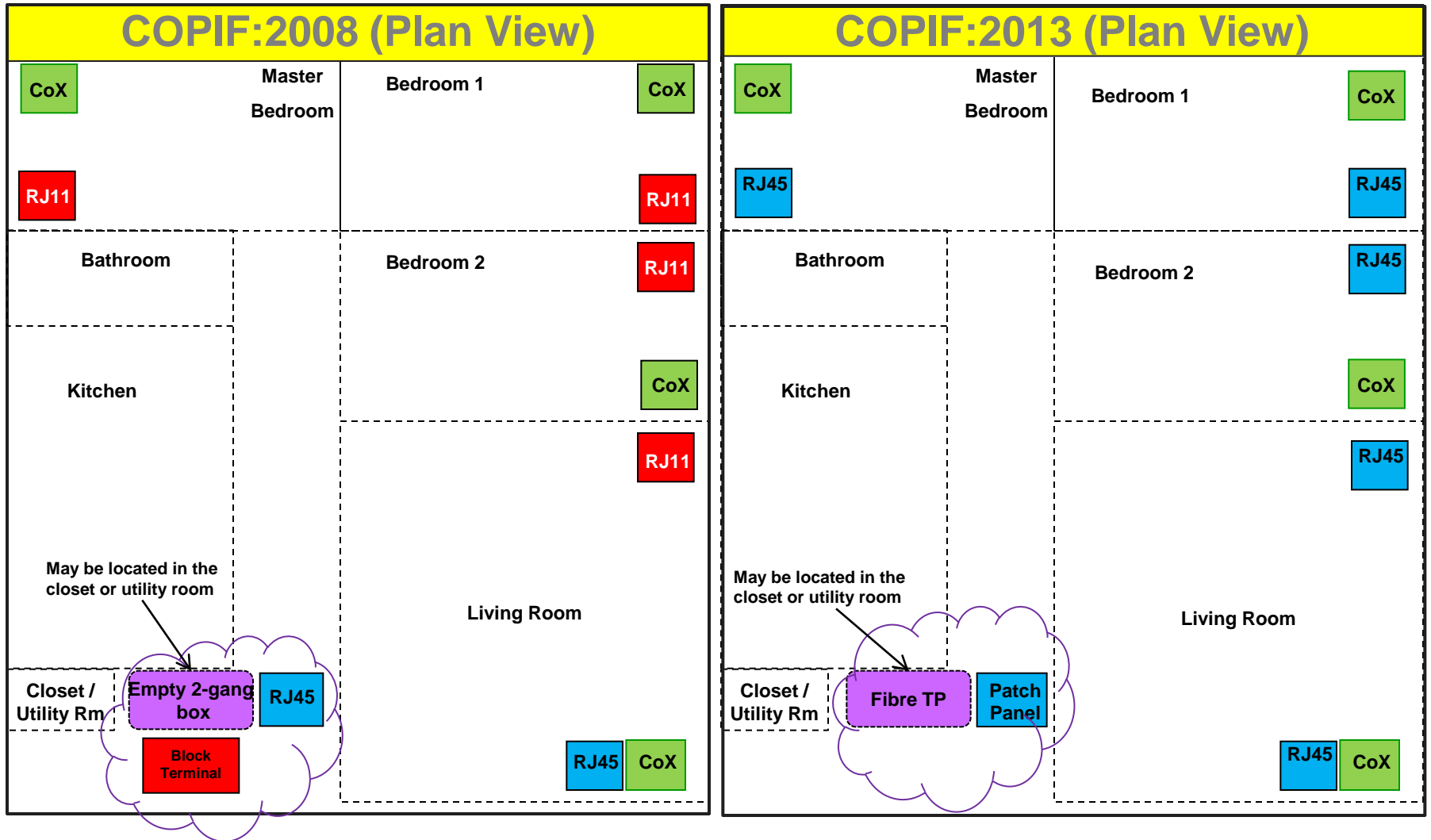


Provision of internal telecommunication wiring

- **Category 6 cables with RJ45 outlets**
 - to each bedroom and living room
 - RJ45 patch panel (*in utility room or closet*)

Replacing all current Category 3 cables and RJ11 outlets

Internal Telecommunication Wiring



Examples of RJ45 Patch Panels



Handover of space & facilities

- Where developer or owner requires telecom services to be provided by TOP, all space & facilities to be ready and handed over to the licensees by:
 - 3 months (single unit landed house); or
 - 6 months (all other developments)

prior to TOP.

Mobile Coverage by TOP

- Points of contact:
 - M1 – <http://csfeedback.m1.com.sg>
 - SingTel – g-stmscp13@singtel.com
 - StarHub – Mobilesetup@starhub.com

Chapter 4 – Landed houses abutting an existing road

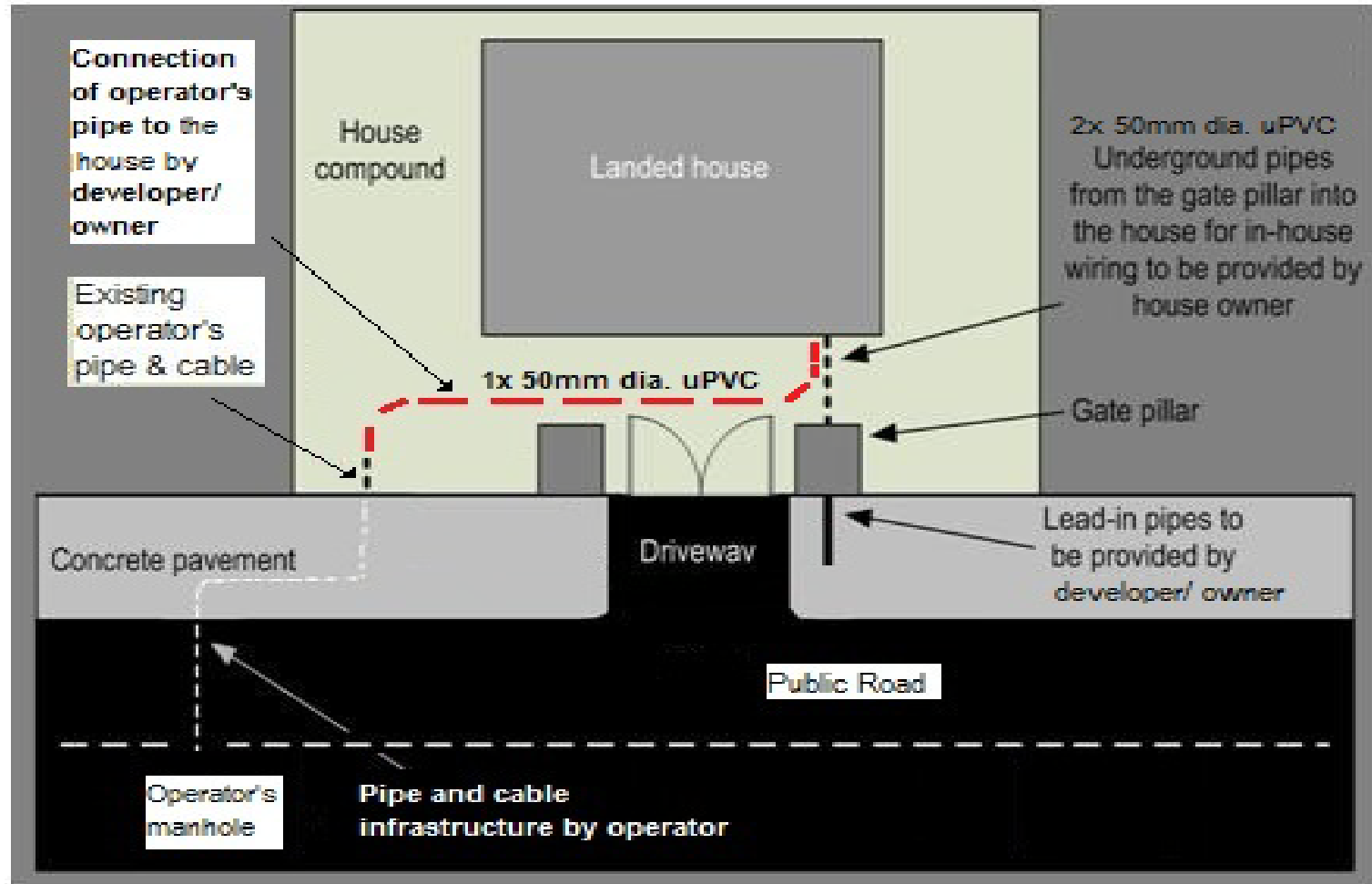
COPIF:2008	COPIF:2013
2 x 50mm \varnothing lead-in & underground pipes for telecom & BCS	50mm \varnothing lead-in & underground pipe for telecom (coaxial cable)
1 x 50mm continuous pipe with draw-rope for NGNBN	50mm \varnothing lead-in & underground pipe for telecom (non-coaxial cable)
	50mm \varnothing lead-in & underground pipe with draw-rope for spare

Chapter 4 (con't)

Where there is an existing pipe running from outside the development, owner shall provide:

COPIF:2013		
No. of existing pipes	Manner in which new underground pipes are to be provided	No. of lead-in & underground pipes to be provided
1	1 new underground pipe to be connected to existing pipe	2
2	2 new underground pipes to be connected to 2 existing pipes	1
3	All 3 of the new underground pipes shall be connected to 3 existing pipes	0

Chapter 4 (con't)



Chapter 10 – Development consisting of road or MRT tunnels

- A mobile deployment space of 40m² shall be provided in every facility building or in underground MRT stations.
- Where a road tunnel is less than 1km, developer or owner to consult IDA on the MDS to provided.

Serving External Properties from COPIF Space

- **COPIF 2013 sets out:**
 - the procedures to be observed by the licensee and building owners before raising disputes to IDA
 - the principles that IDA may adopt in resolving such disputes
- **Guiding Principles Adopted by IDA**
 - Allow coverage of external developments in general
 - Space to be provided rent-free
 - Building owners not to be worse off
 - All associated costs will be borne by Licensees
 - Removal, Relocation and Diversion
 - Safety and Security Measures

Implementation of COPIF 2013

- Effective Date – 1 May 2013
- All provisions in COPIF applicable to new developments which obtain URA's PP or WP approval, whichever is earlier, on or after 1 May 2013 .
- Provisions relating to MDS, and other ongoing obligations, applicable from 1 May 2013 to all new and existing buildings.
- COPIF:2013 can be downloaded from IDA's website:
<http://www.ida.gov.sg> >> Policies & Regulations >> Code of Practice >> Code of Practice for Info-communication Facilities in Buildings

Questions & Answers