



Fabricant et Concepteur de Solutions  
d'Infrastructure Réseau

—  
Datacenter - LAN - Télécoms

## JEUX OLYMPIQUES DE PARIS 2024 : ENJEUX DES TÉLÉCOMMUNICATIONS



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UN SITE DE COMPÉTITION

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UN PEU DE TECHNIQUE

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**1**

***CONTEXTE***



# Paris 2024 en chiffres

**32 + 22**

SPORTS OLYMPIQUES ET PARALYMPIQUES PRATIQUES

**10.500 + 4.350**

Athlètes

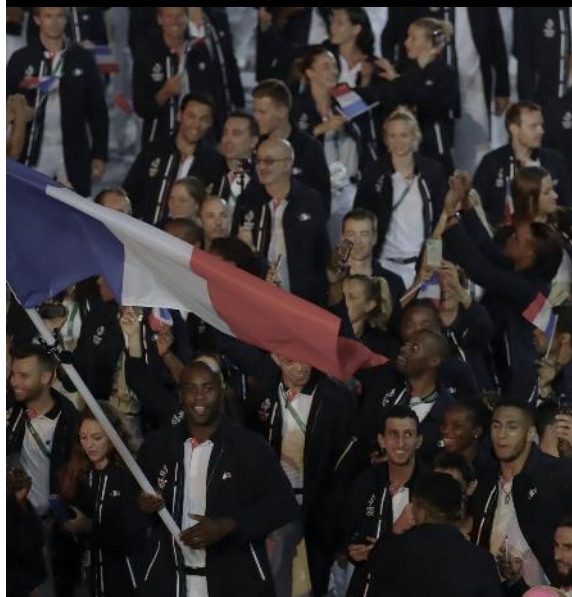
**206 nations**

REPRESENTÉES



**31.500 + 13.500**

VOLONTAIRES



**+ 26.000**

REPRESENTANTS DES MEDIAS ACCREDITES



**+ 350.000**

HEURES DE DIFFUSION TV ET PLATEFORMES CONFONDUES

**4 Milliards**

TELESPECTATEURS

**13,5 millions**

SPECTATEURS

**15 millions**

SPECTATEURS DU RELAIS DE LA FLAMME

La technologie au cœur de l'événement

**+150 sites**  
COMPETITION + NON-COMPETITION

**12.000**  
ECRANS SUR SITES

**384.400**  
KM DE FIBRE OPTIQUE ( soit la distance Terre-Lune)

**+200**  
APPLICATIONS

**+13.000**  
Talkies Walkies

**+13.000**  
ORDINATEURS

4 Reseaux

- BCN
- WAN/LAN IP
- DIVA
- Mobile

**548**  
Evènements de cybersécurité affectant des entités en lien avec l'organisation des JOP de PARIS 2024  
Source ANSSI

**+ 60.000**  
Ports Ethernet

**+ 2.000**  
Switchs Cisco

**+ 2.000**  
Téléphones IP Cisco

**+ 9.000**  
Bornes Wifi

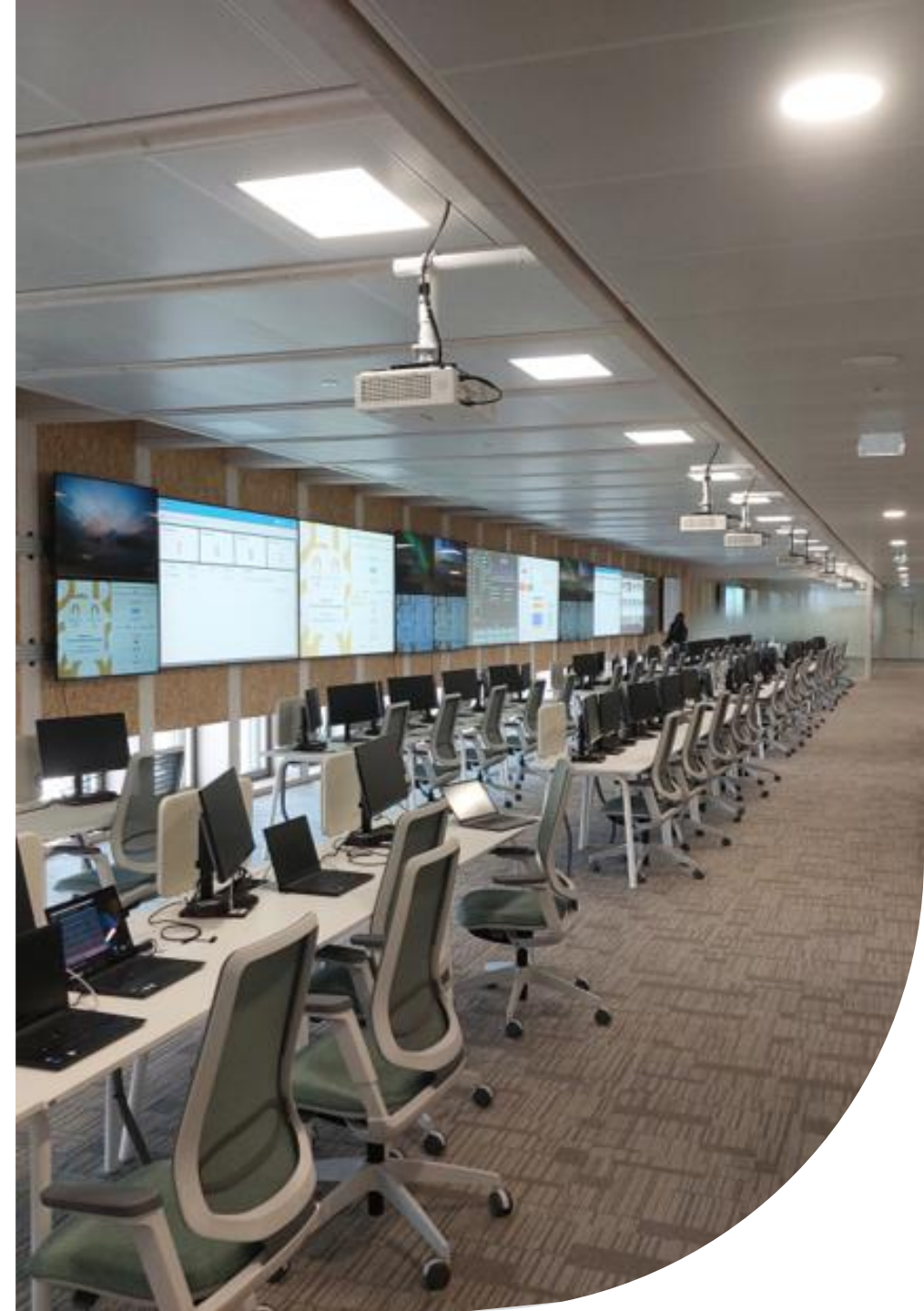
# **TOC**

## **TECHNOLOGY OPERATION CENTER**

- Le Centre des Opérations Technologiques (TOC) est le lieu central où sont hébergés l'équipe TEC du COJO (Paris 2024) et ses partenaires/prestataires de services technologiques pour soutenir le déploiement, la préparation et les opérations des Jeux, notamment pour toutes les infrastructures, systèmes et services pour Diffuseurs
- Le TOC gère les incidents (y compris les situations exceptionnelles) conformément aux accords de niveau de service définis, aux niveaux de gravité et aux procédures de support.

**SITUÉ AU SIÈGE  
DE PARIS 2024**

**OUVERT DU 12  
JUIN 2023 AU  
15 SEPTEMBRE  
2024**





2

*UN SITE DE  
COMPÉTITION*



## WAN

Venues connexion with  
- IBC (WAN BCN)  
- 2 POPs (WAN ODN)



## LAN & WIFI

Wired and wireless network



## NETWORK EQUIPMENT

Cisco networking and cybersecurity solutions



## DIVA

A/V feeds transport  
Data, Intercom,  
Video, Audio



## CATV

1/ Intra-venue / Local Feed  
2/ Inter-venue / Multi Feed



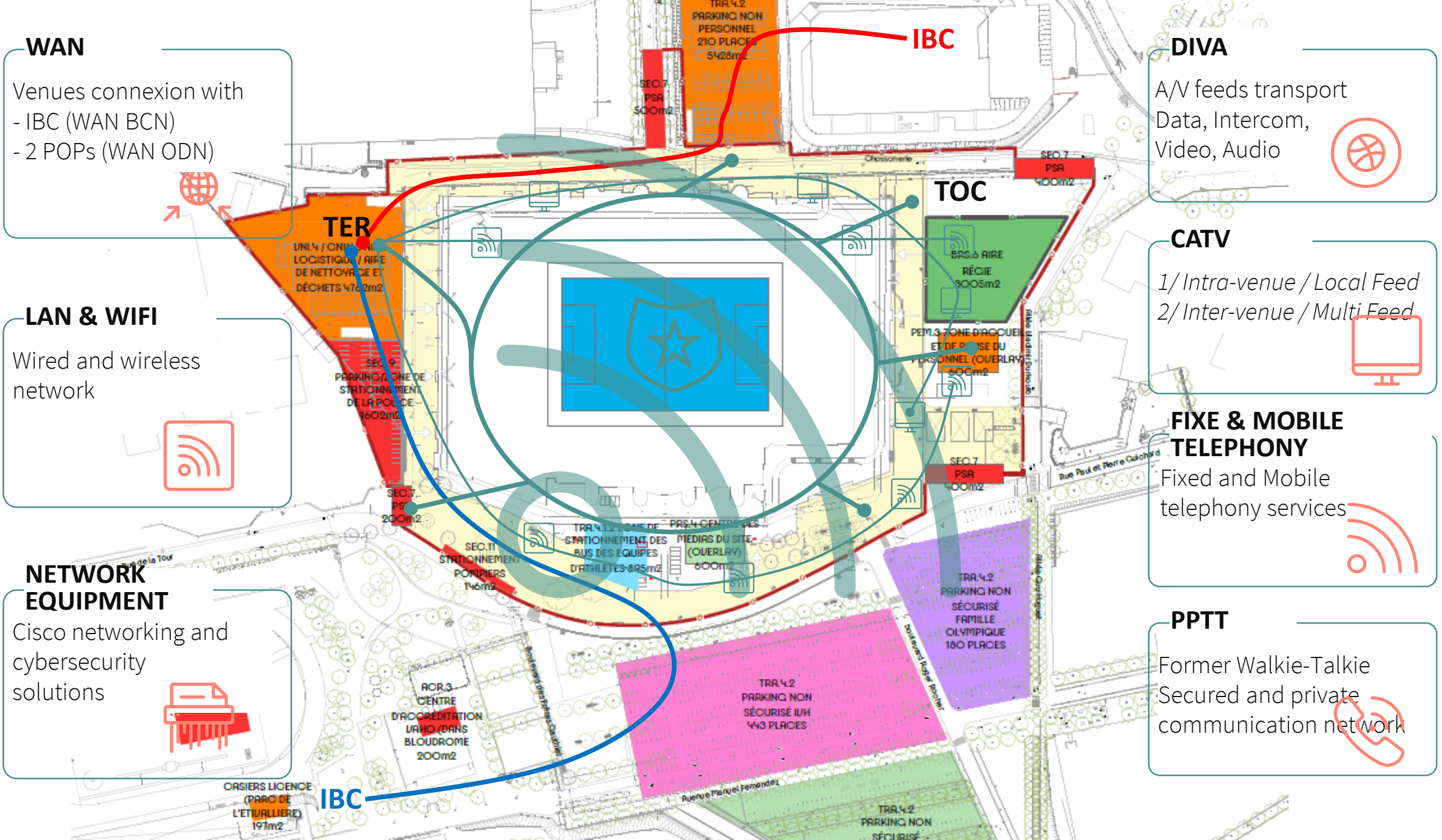
## FIXE & MOBILE TELEPHONY

Fixed and Mobile telephony services



## PPTT

Former Walkie-Talkie  
Secured and private  
communication network





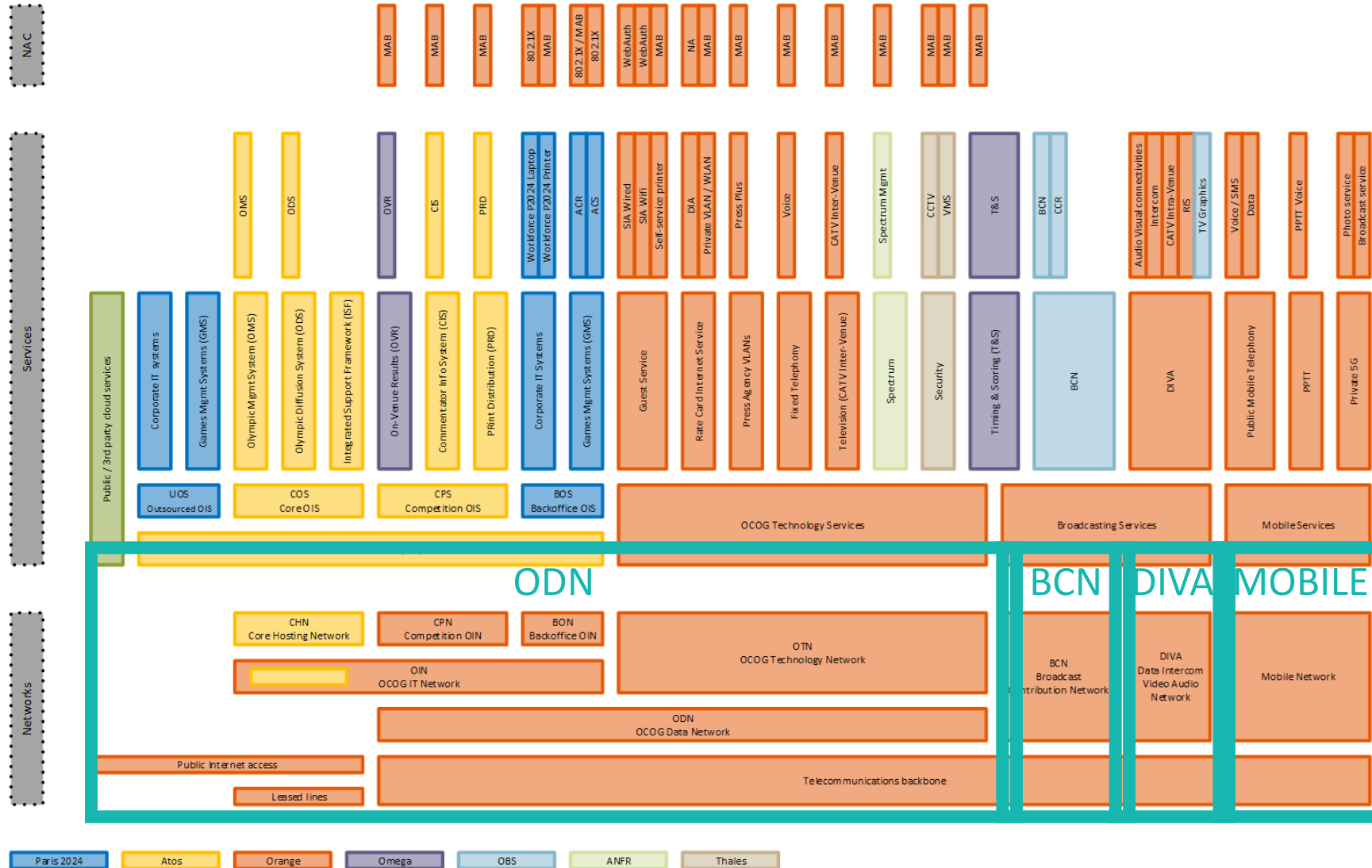
4

3

*UN PEU DE  
TECHNIQUE*

# VENUE NETWORKS

## Delivered services

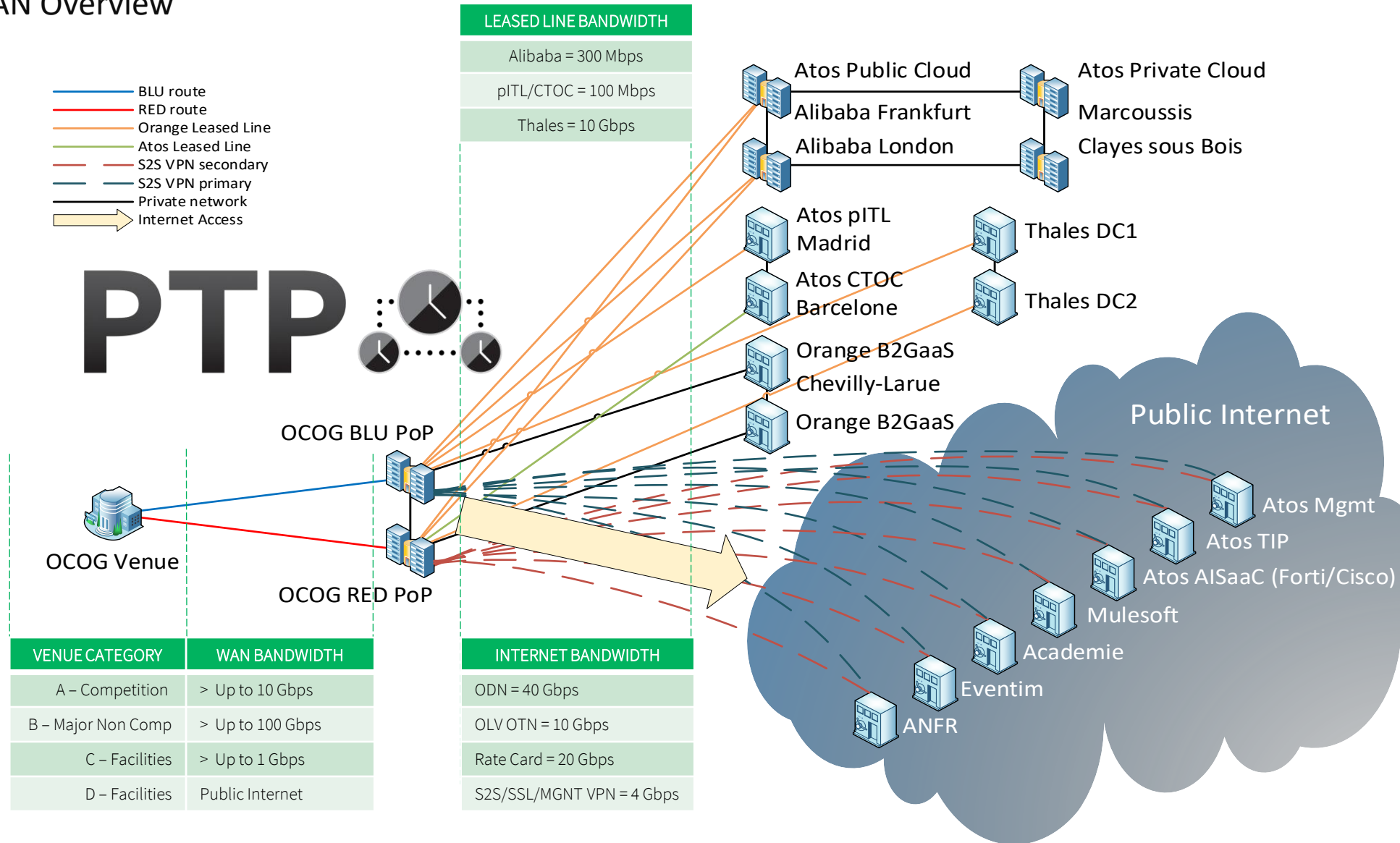


Apply to all accredited, spectators and OCOG services

- Glossary**
- BCN Broadcast Contribution Network
  - BON Back Office Network
  - CCR Commentary Control Room
  - CPN Competition Network
  - DIA Direct Internet Access
  - DIVA Data Video Intercom Audio
  - ODN OCOG Data Network
  - OIN OCOG IT Network
  - OTN OCOG Technology Network
  - MAB MAC Address Bypass
  - NAC Network Access Control
  - RIS Remote Interpretation Service
  - SIA Shared Internet Access

# #1 ODN – OCOG DATA NETWORK

## WAN Overview



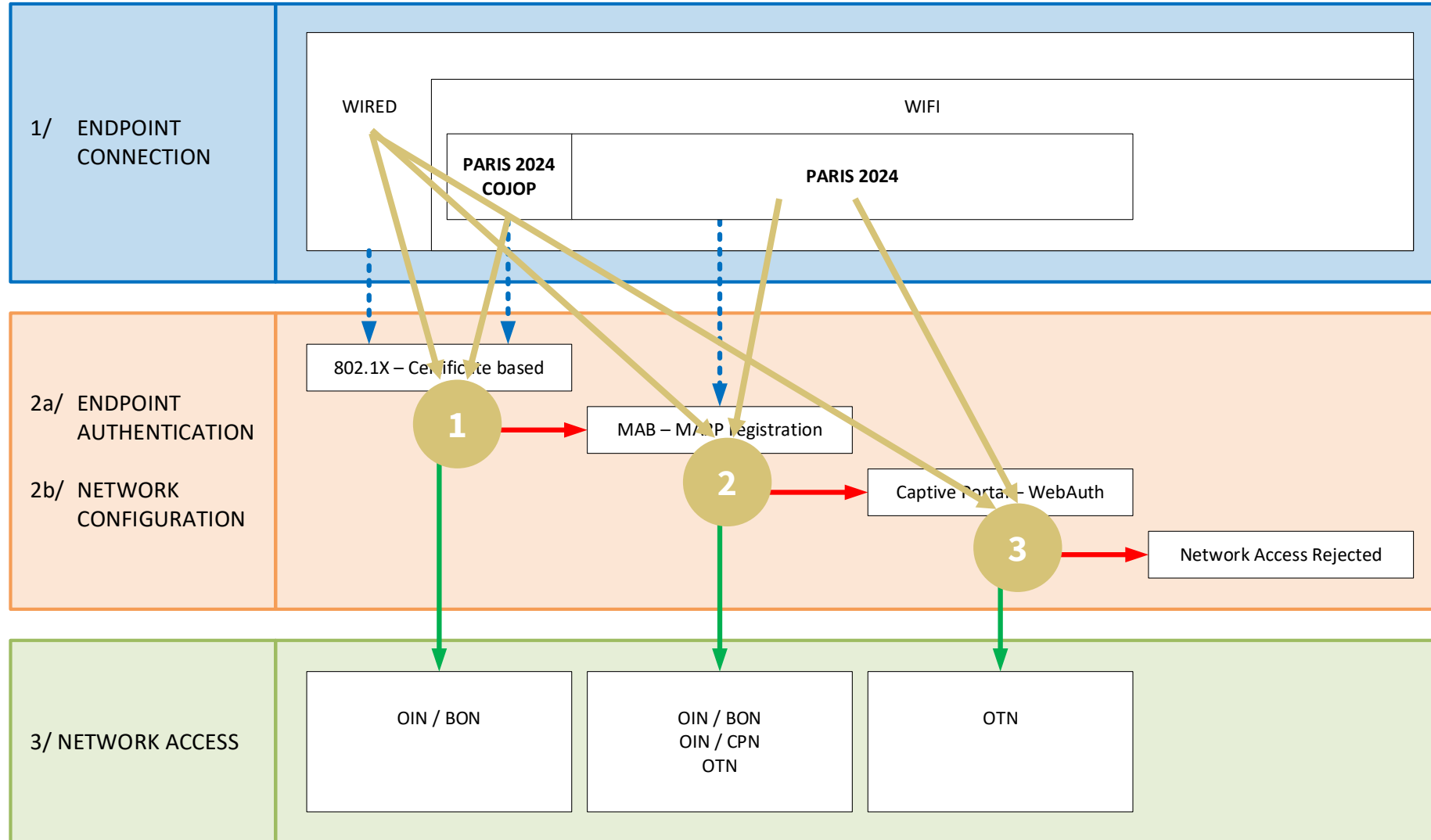
Apply to all accredited and OCOG services

**Glossary**

CTOC	Central Technology Operation Center
DC	DataCenter
pITL	physical Integration & Testing Lab
ODN	OCOG Data Network
OLV	Olympic Village
S2S	Site to Site
TIP	Threat Intelligence Platform
VPN	Virtual Private Network
WAN	Wide Area Network

# #1 ODN – OCOG DATA NETWORK

## Network Access Control (NAC) – Principle



Apply to all accredited and OCOG services

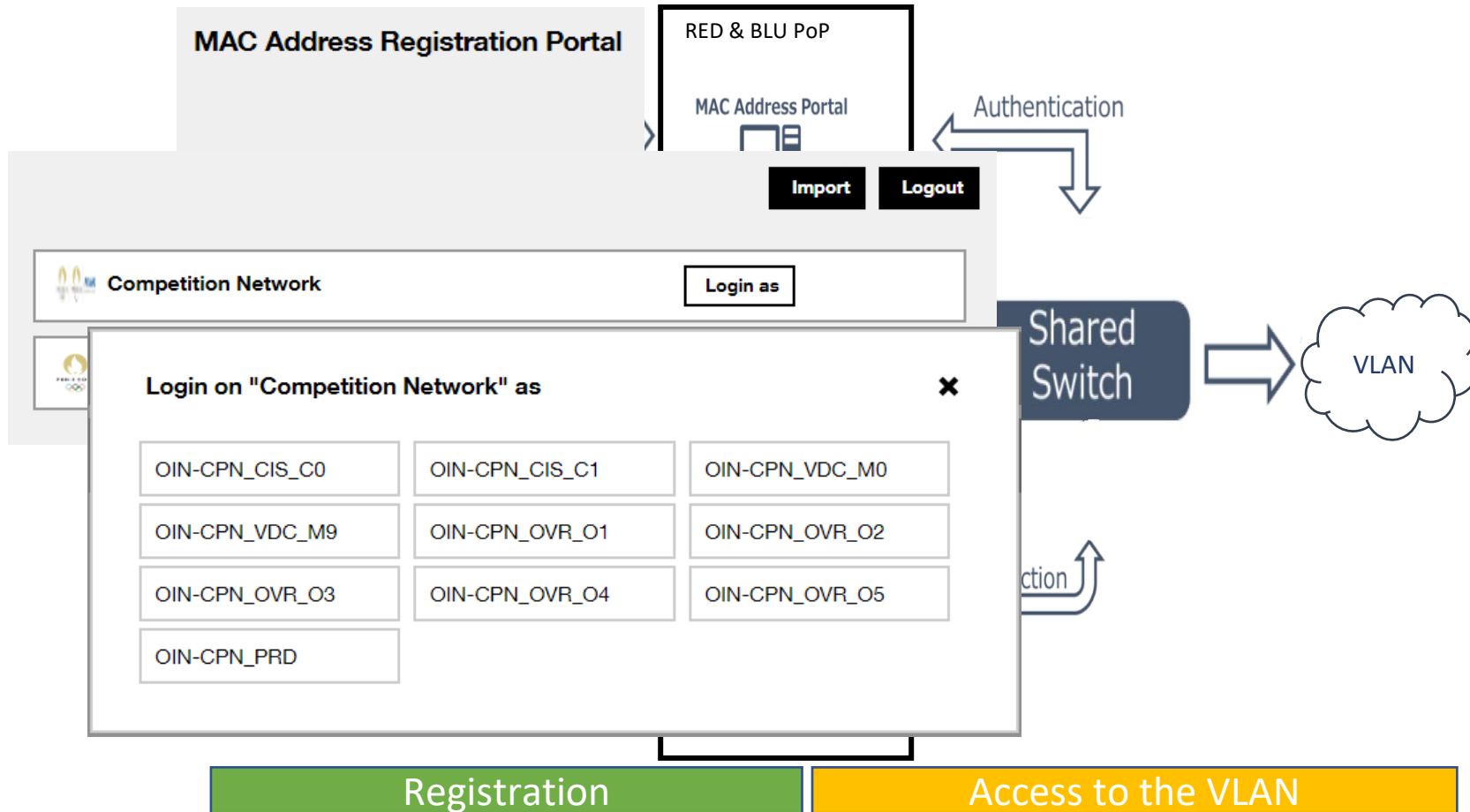
- Glossary**
- BON Back Office Network
  - CPN Competition Network
  - ODN OCOG Data Network
  - OIN OCOG IT Network
  - OTN OCOG Technology Network
  - MAB MAC Address Bypass
  - MARP MAC Address Registration Portal
  - NAC Network Access Control



# #1 ODN – OCOG DATA NETWORK

Network Access Control (NAC) – MARP

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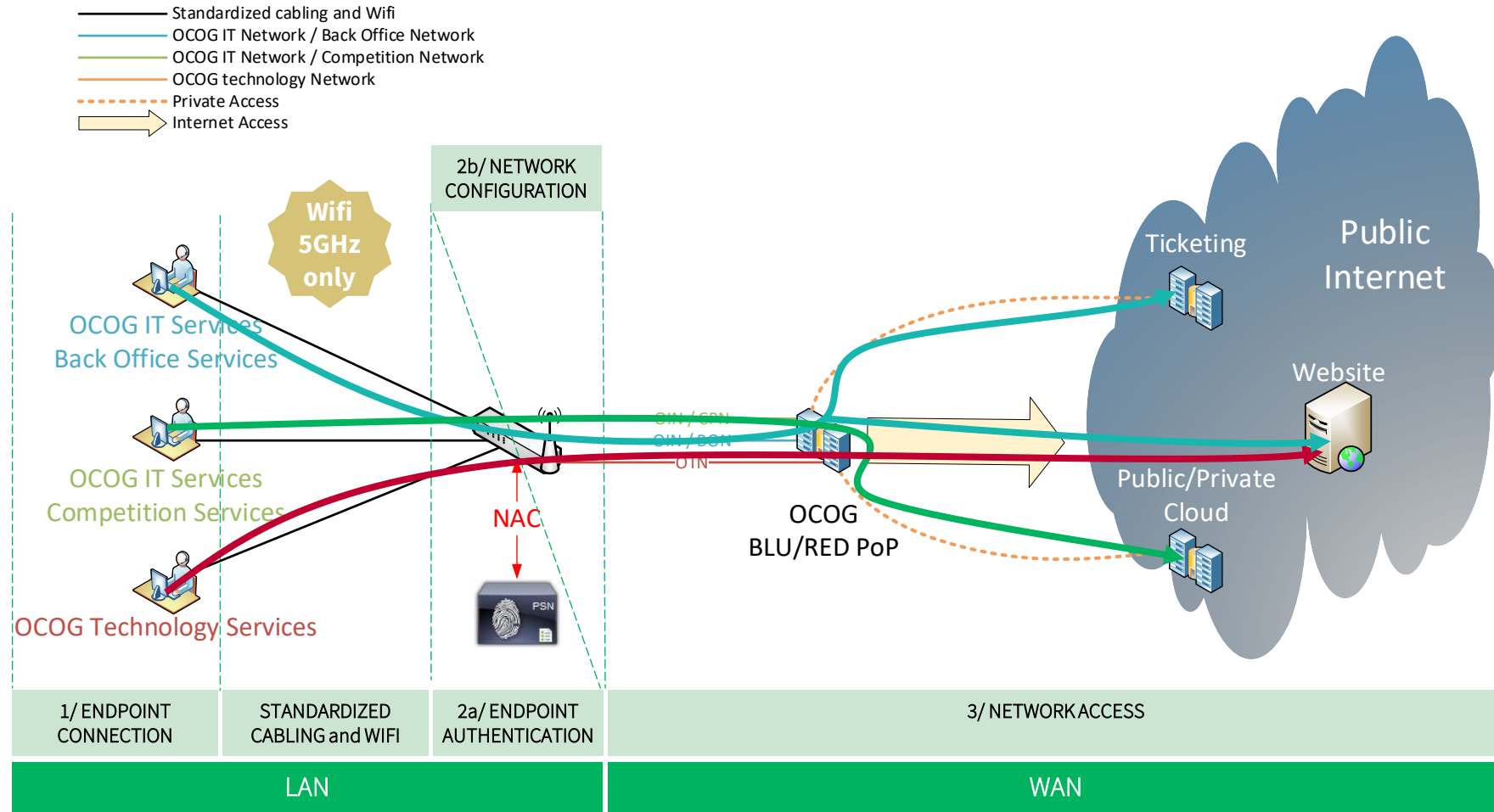
Apply to all accredited and OCOG services

**Glossary**

- ODN OCOG Data Network
- MARP MAC Address Registration Portal
- NAC Network Access Control
- VLAN Virtual Local Area Network

# #1 ODN – OCOG DATA NETWORK

## LAN Overview



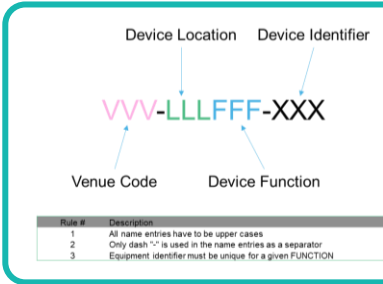
Apply to all accredited and OCOG services

**Glossary**

BON	Back Office Network
CPN	Competition Network
LAN	Local Area Network
ODN	OCOG Data Network
NAC	Network Access Control
ODN	OCOG Data Network
OIN	OCOG IT Network
OTN	OCOG Technology Network
WAN	Wide Area Network

# #1 ODN

## TER & NER



Apply to  
all accredited  
and OCOG services

Glossary	
CCR	Commentary Control Room
ODN	OCOG Data Network
NERc	Network Equipment Room critical
NERn	Network Equipment Room non-critical
OBS	Olympic Broadcasting Services
TER	Telecom Equipment Room
TOC	Technology Operation Centre
MAB	MAC Address Bypass



# #1 ODN – OCOG DATA NETWORK

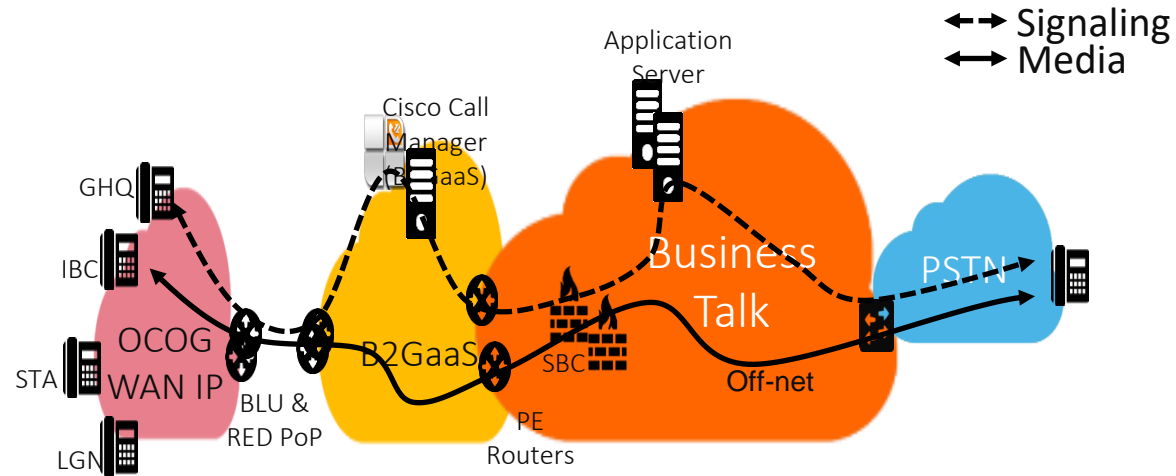
Fixed Telephony and Call Center services

## Numbering plan

09 20 24 00 00 to 99 90

## Communication channels

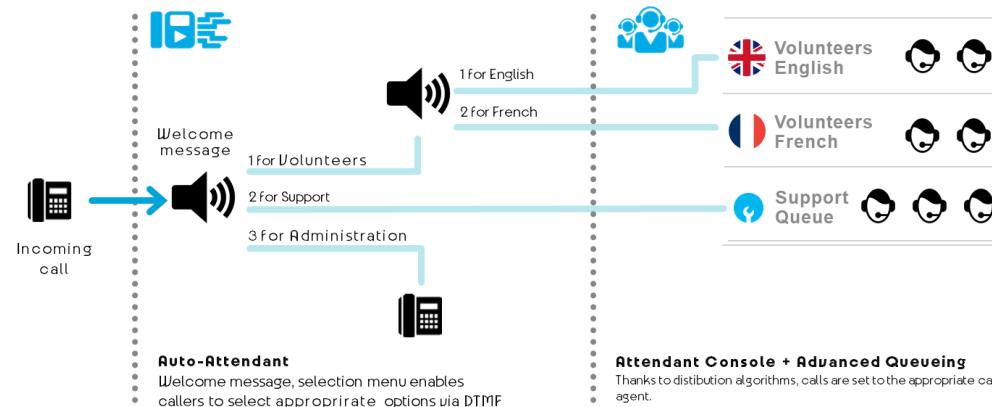
1000 simultaneous inbound / outbound



Apply to all accredited and OCOG services

## Call Center solution

**Volunteer Call Center:** 09 69 37 20 24  
**TROC Call center:** 09 69 37 26 07  
**TRA Call Center:** 09 69 37 07 24  
**GSCC Call Center:** 09 69 37 02 04



<b>Glossary</b>	
ODN	OCOG Data Network
MARP	MAC Address Registration Portal
NAC	Network Access Control
VLAN	Virtual Local Area Network

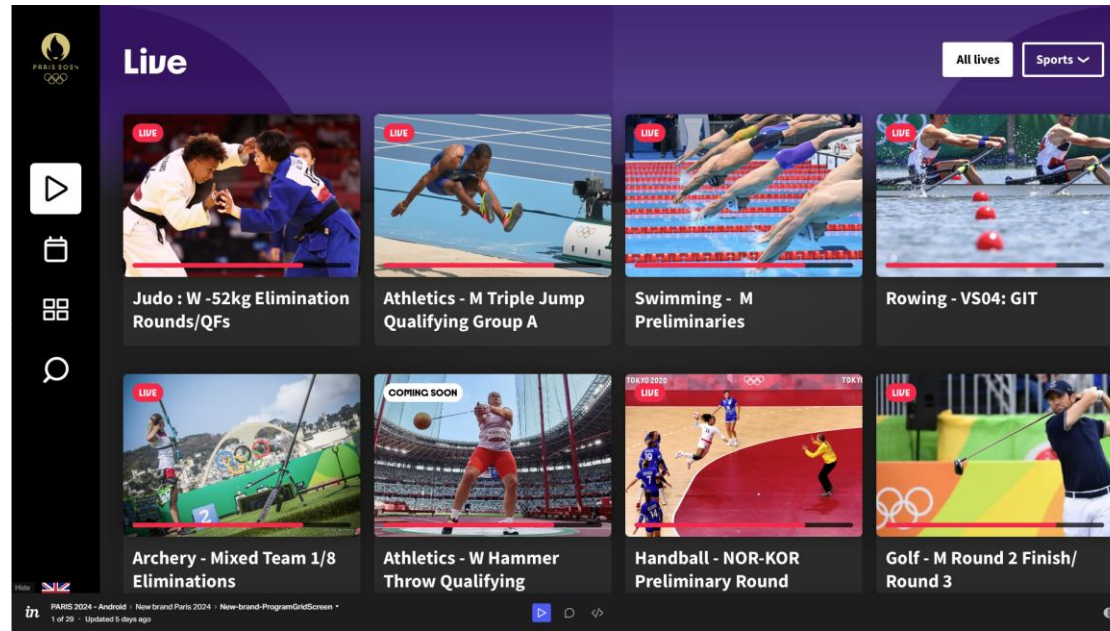


# #1 ODN – OCOG DATA NETWORK

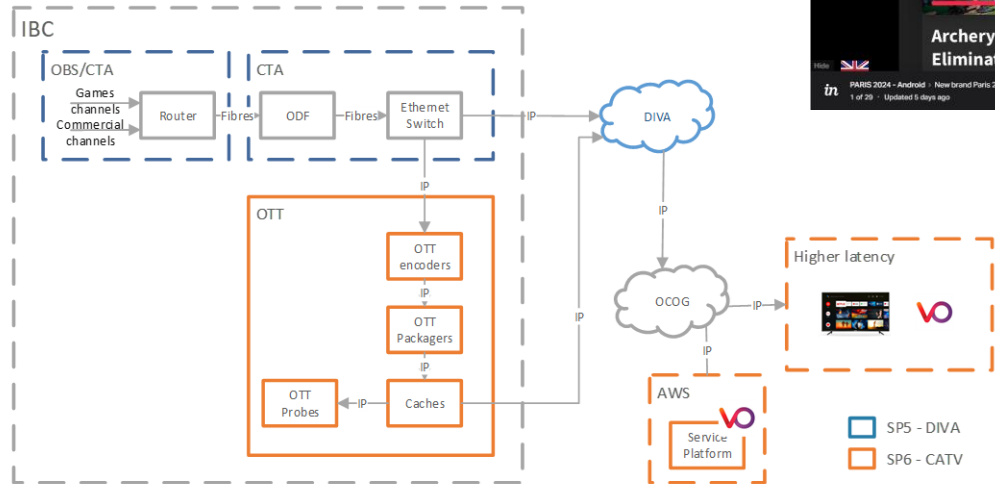
CATV **Inter-Venue** service (Multi Feed) : Streaming TV

## Content

- 50 Games channels
- Up to 20 Commercial channels
- TV channels provided by OBS
- Application's NOT available on stores



Apply to all accredited and OCOG services



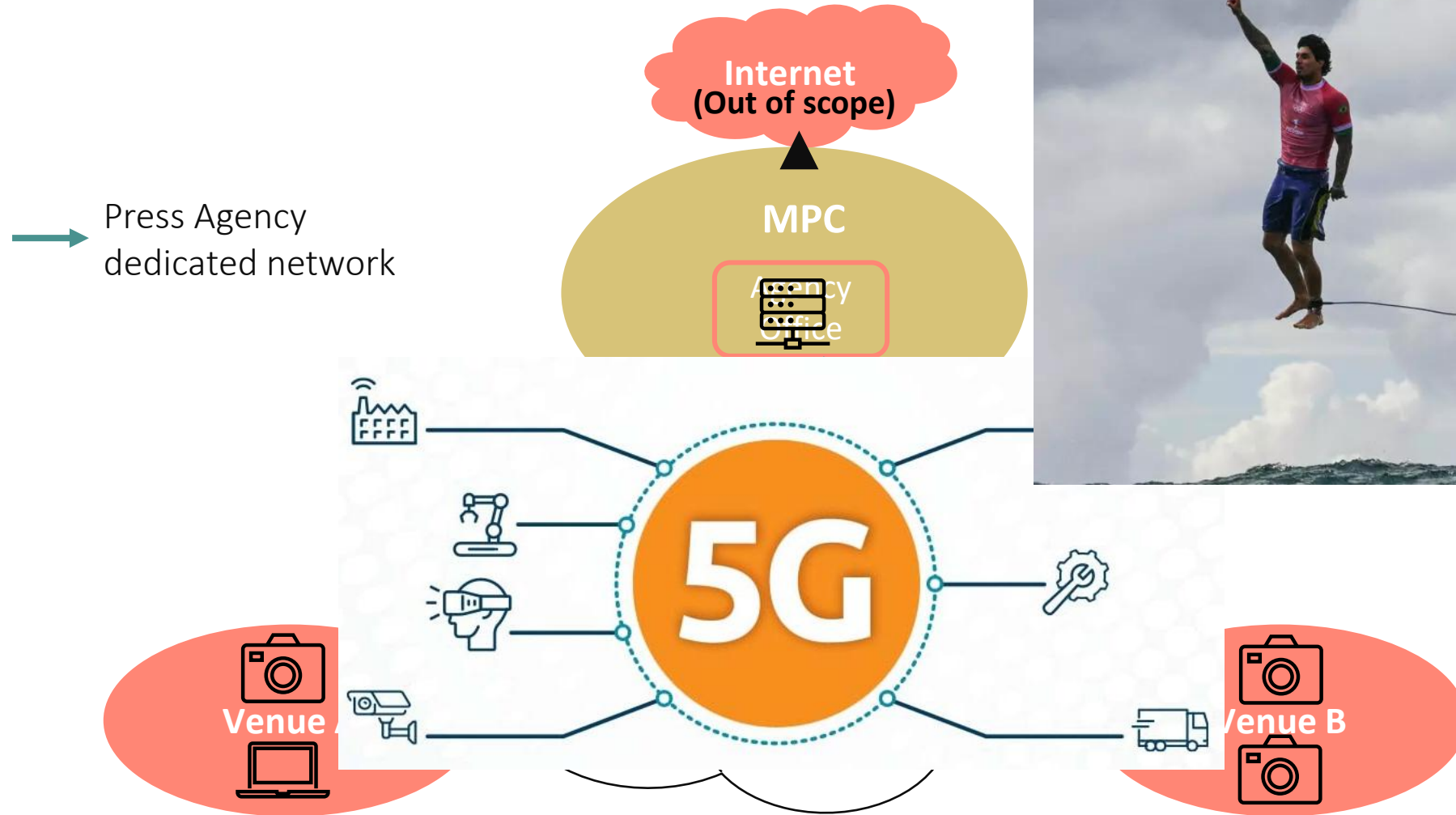
- 10 seconds of latency
- Streams only available by cabling on ODN

**Glossary**

CDN	Content Delivery Network
DRM	Digital Rights Management
DIVA	Data Intercom Video Audio
ODN	OCOG Data Network
OBS	Olympic Broadcasting Service
OTT	Over The Top
NTP	Network Time Protocol
VPN	Virtual Private Network

# #1 ODN – OCOG DATA NETWORK

Press Plus service



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## Glossary

ODN	OCOG Data Network
MARP	MAC Address Registration Portal
NAC	Network Access Control
VLAN	Virtual Local Area Network

## BESOIN D'UNE INFRASTRUCTURE DATA & TÉLÉCOM DE POINTE

Nexconec conçoit et fabrique des solutions optiques sur mesure selon vos besoins.

- Réactivité
- Flexibilité
- Solutions Personnalisées
- Tiroirs HD d'épissure et brassage
- Systèmes de câblage MTP/MPO
- Câbles Micro-Breakout préconnectorisés
- Stock Disponible



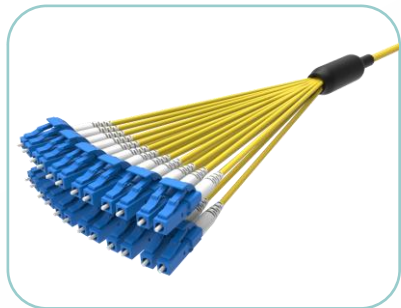
Module d'épissure



Module MTP-LC



GPON Splitters



Câbles Préconnectorisés



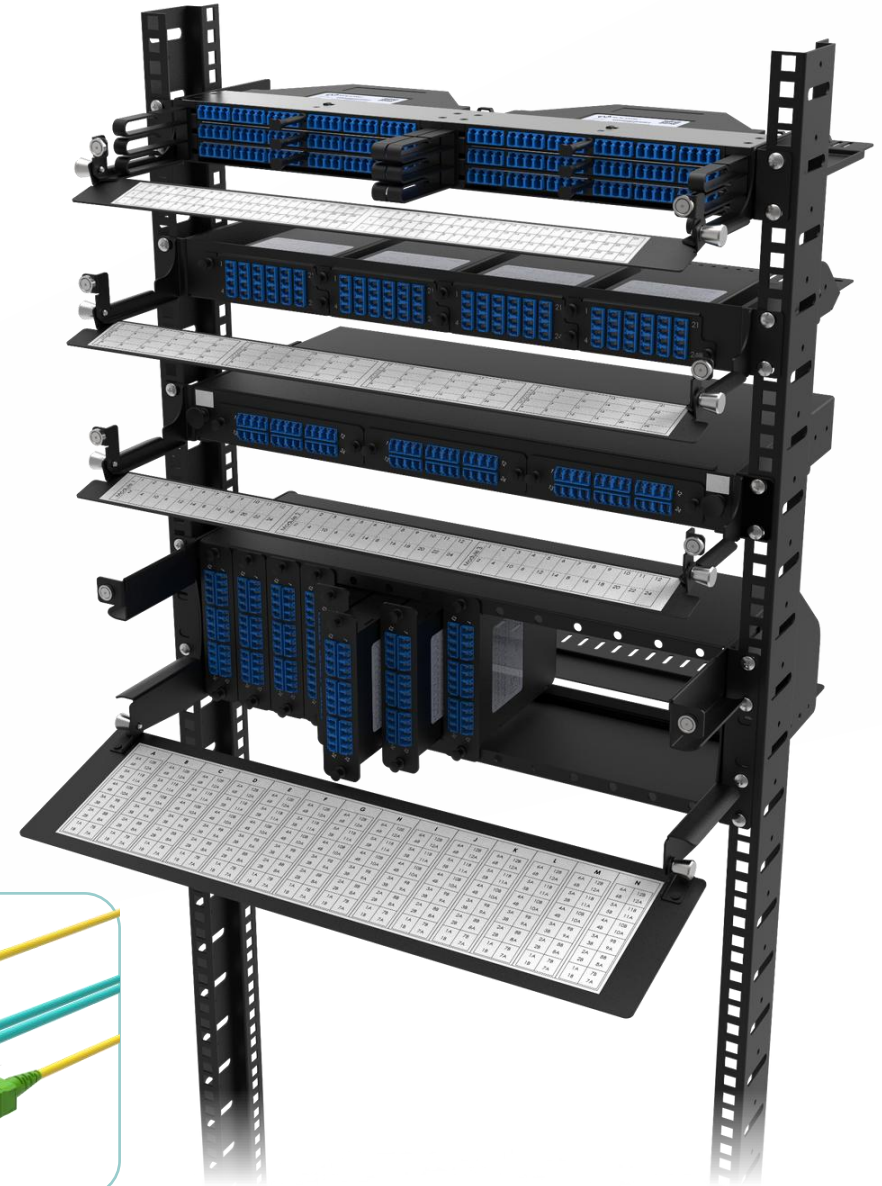
Trunks MTP/MPO



Breakout MTP-LC



Jarretières



***MERCI***



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