BlasCom IT

IT & TELECOM STRATEGY

Mobile Number Portability

Thanks to our expertise in technologies and business processes

Summary

1. Definition
2. Concept
3. Routing schemes
4. Direct routing
5. Indirect routing
6. Implementation modes
7. Impacts
8. Possible Business Models
9. Contact

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1. Definition

Non ported number

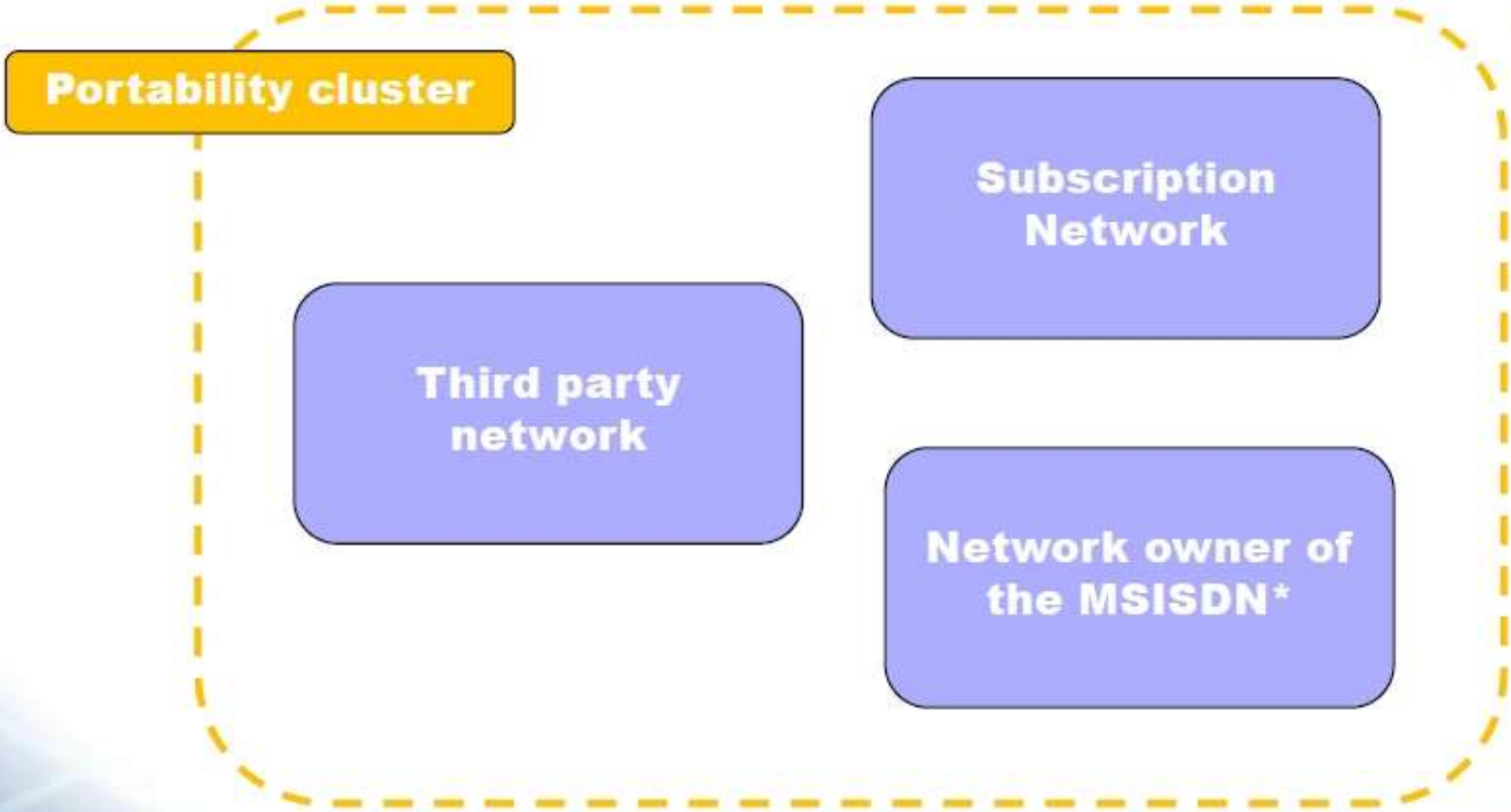
Number included in the number range attributed to a network and attached to a customer of this same network

Number included in the number range attributed to a network and attached to a customer of another network

Ported number

Mobile Number Portability
to further Increase competitive intensity !

2. The concept



*Mobile Station ISDN Number
= Mobile phone number

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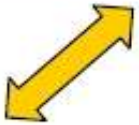
3. Two routing schemes

Direct Routing

Direct routing of the calls from the originating network to the subscription network

Routing of the calls from the originating network to the subscription network via the network « owner » of the MSISDN



Indirect Routing

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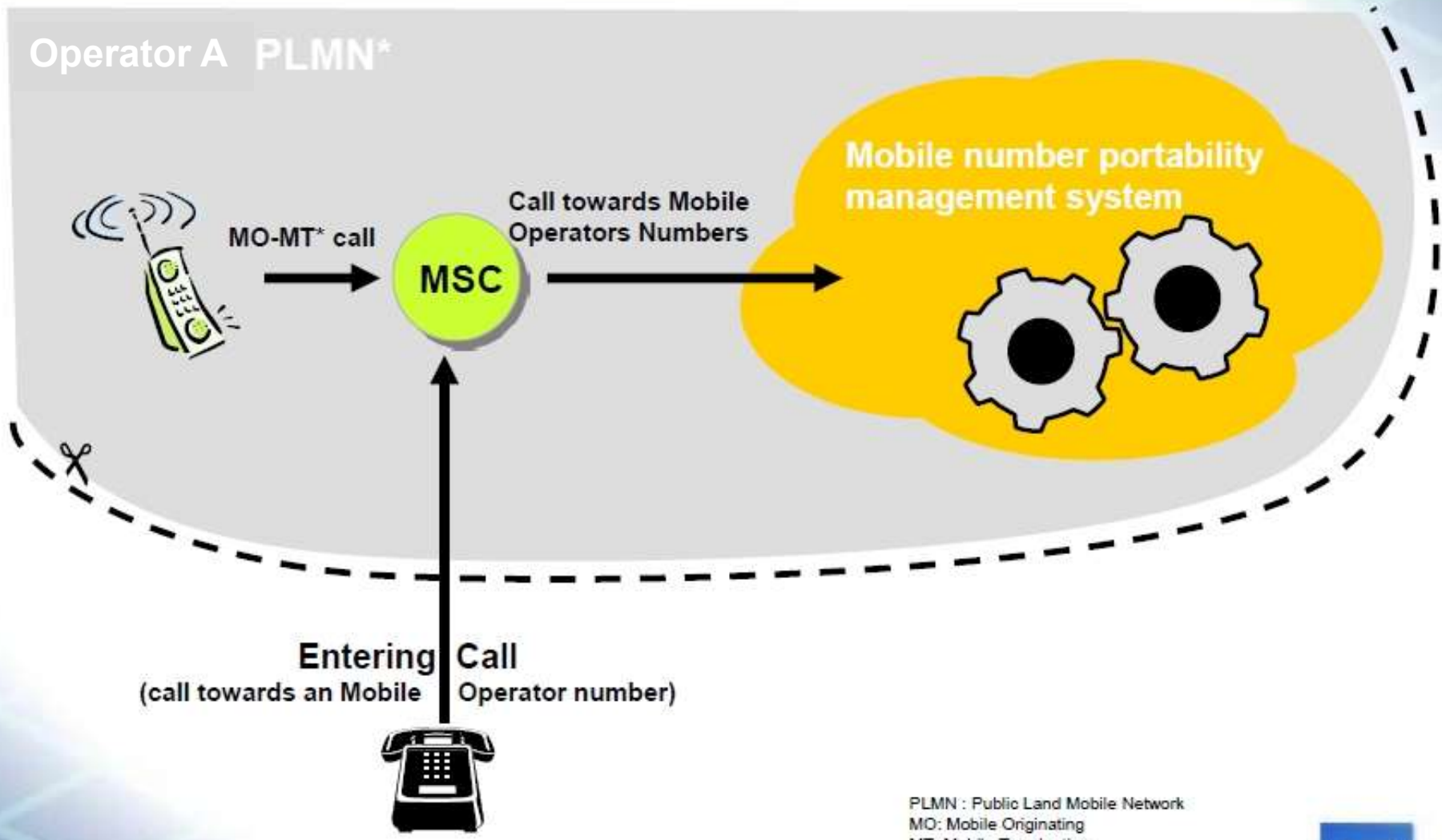
4. Direct Routing



PLMN : Public Land Mobile Network
MO: Mobile Originating
MT: Mobile Terminating

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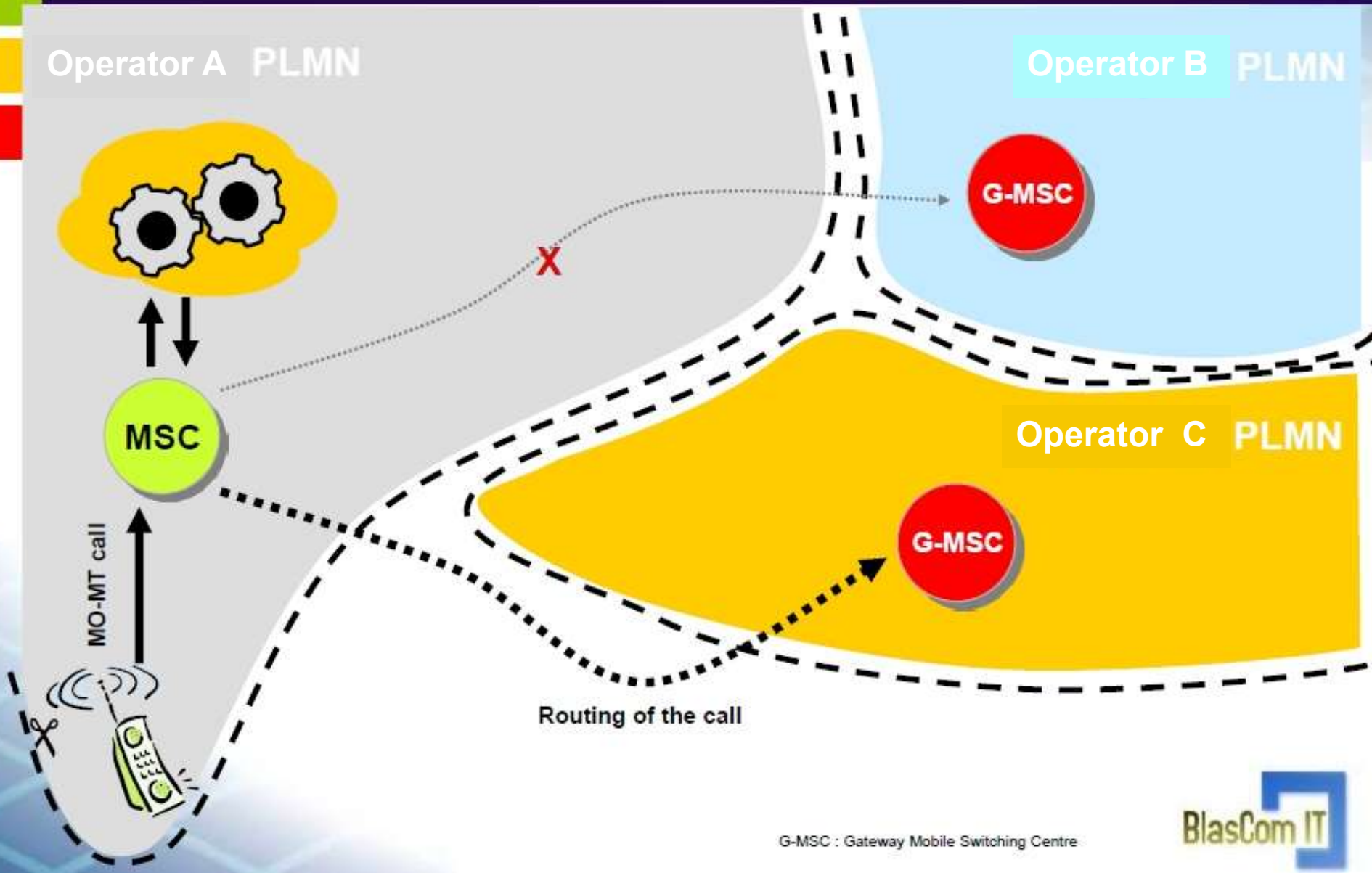
4. Direct routing
(call towards a C customer with a B number)



G-MSC : Gateway Mobile Switching Centre

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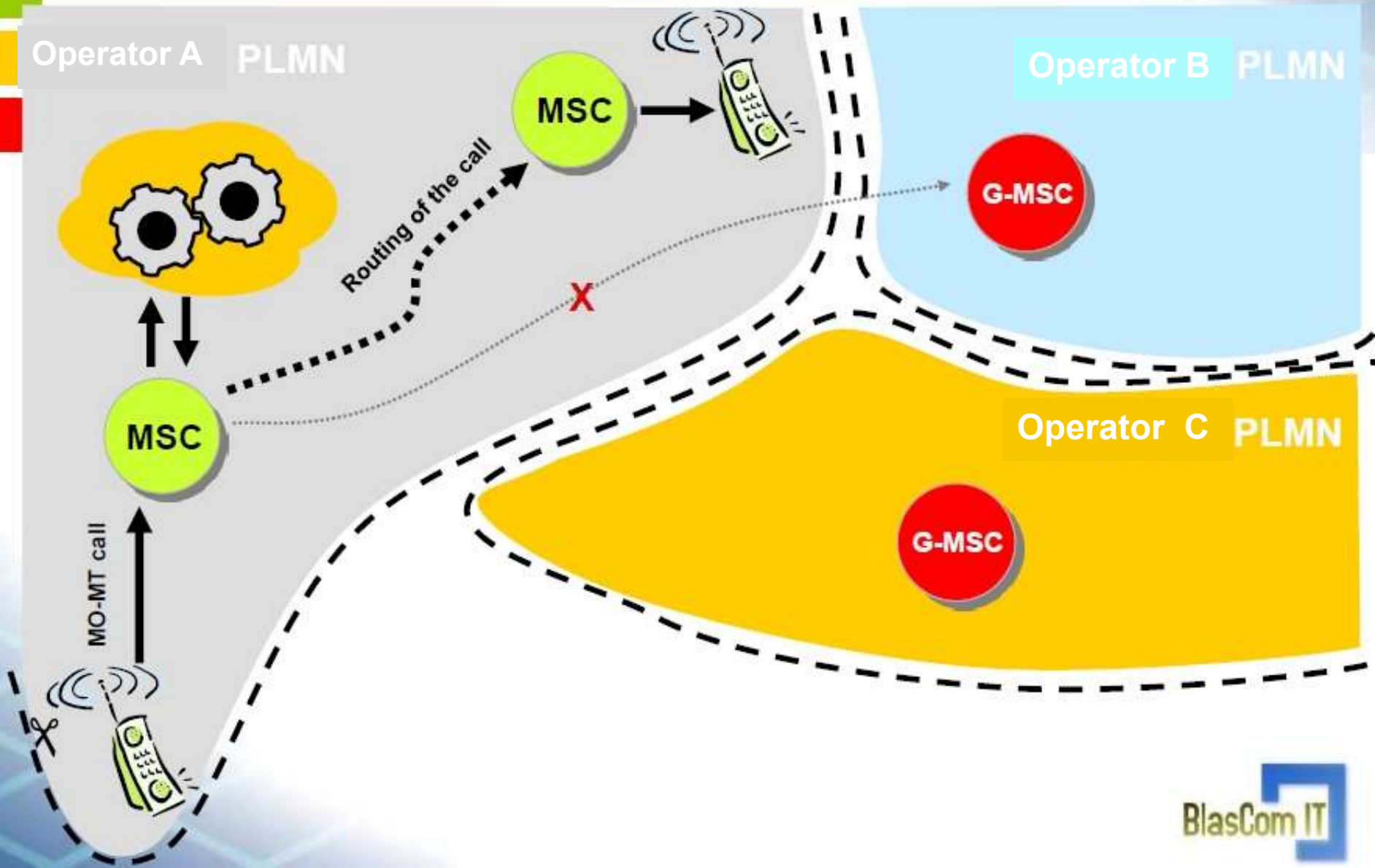
4. Direct routing
(call towards a A customer with a B number)



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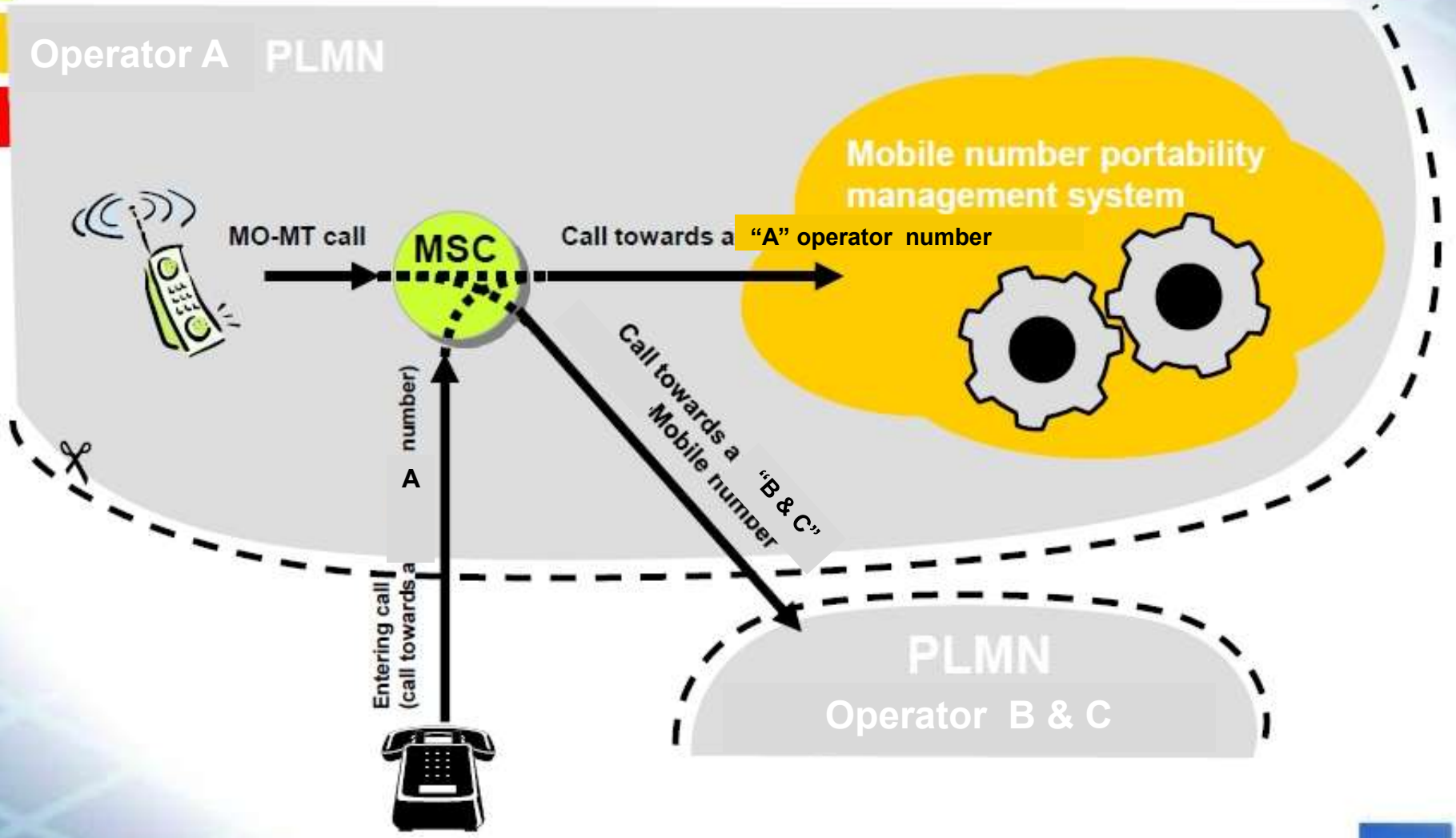
5. Indirect Routing



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5. Indirect routing
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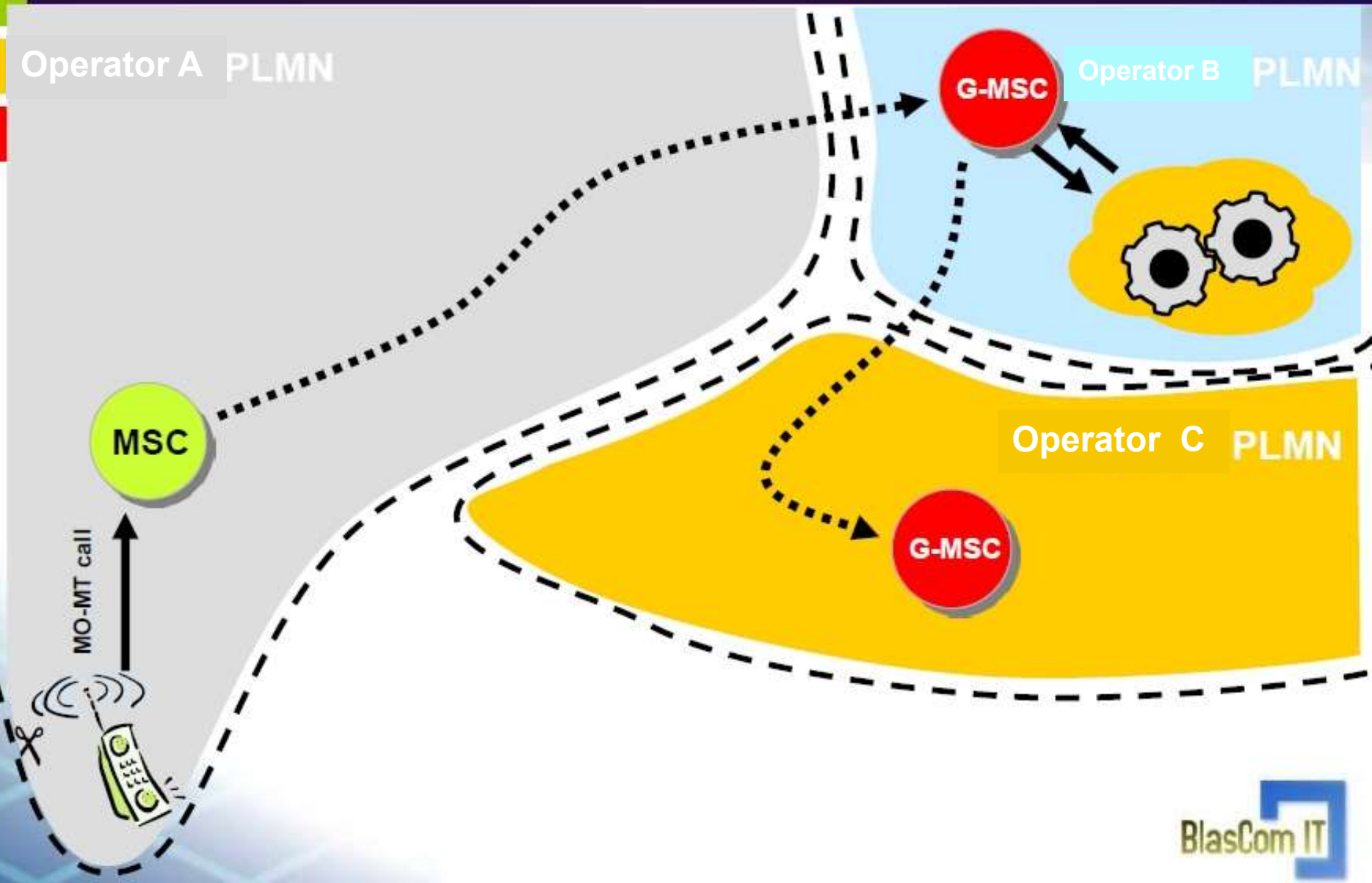

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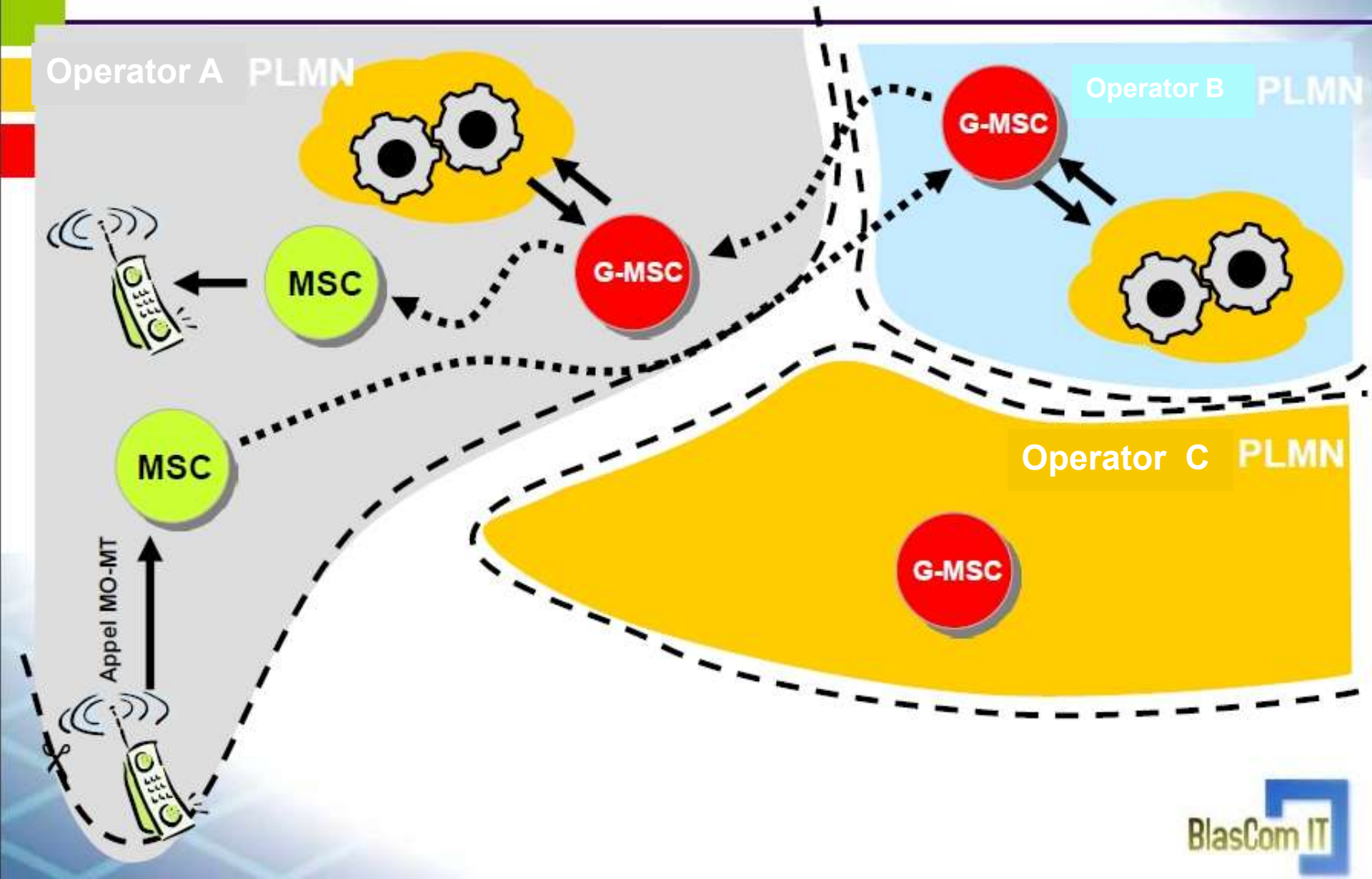
5. Indirect routing
(call towards a A customer with a B number)



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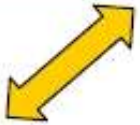
6. Two implementation modes

IN* Solution

The technical realization is based on INAP* messages sent by the G-MSC

The technical realization is based on SCCP relays realizing, either the transport, or the acknowledgement of the MAP* requests sent by G-MSC (SRI* messages)



SCCP* Relay Solution

IN : Intelligent Network
SCCP = traffic limitation mechanism
INAP : Intelligent Network Application Protocol
MAP : Mobile Application Part
SRI : Send Routing Information ,or, Signaling Relay Intelligence

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7. Impacts on the organization of the market

- Management of the data base gathering all the ported numbers

- Many technical options depend on the regulator requirements
- Inter-operator financial settlements

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7. Impacts on the operators

Network equipment :

- MNP platform,
- Switches (MSC, MSC Server, Transit Center, Softswitch, …),
- Signal Transfer Point (STP),
- Home location register (HLR) ,
- Voice Messaging System (VMS),
- SMS Center (SMS-C),
- Intelligent Network (IN),
- Information System.

Terminals since some parameters are defined in the terminal and not on the SIM card

Valorization for on-net type offers

Customer care

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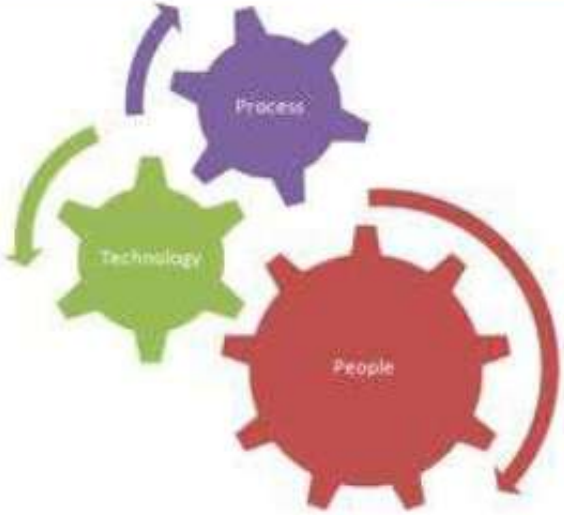
7. Impacts on the operators

New Process to be defined :

8.Possible Business Models

- EIG : Economic Interest Group
- Telecom Regulator subdivision
- Subsidiary of Cellular Mobile Operators
- Independent Private or Public Company
- Others….



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ITU and climate change

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BlasCom IT *à également été incorporée au DCICC :* ***Dynamic Coalition on Internet and Climate Change****, dépendant de l'Union Internationale des Télécommunications (ITU) et comptant 51 sociétés et/ou organismes au niveau mondial.*

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