

# TELECOMMUNICATION DEVELOPMENT BUREAU

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SOURCE: Intercai Mondiale

TITLE: Towards Harmonization of indicators - Traffic Indicators



### "Intercai Mondiale - The Business of Telecoms"

### Intercai provides support for:

- **Telecommunications operators:** developing services and infrastructure in the face of rapid technological development, liberalisation, regulatory change and increasing competition, including:
  - business strategy, planning and marketing
  - product planning and service implementation
  - business case development
  - network planning, auditing and evaluation
- Telecommunications industry Regulators: economic analysis, financial modeling of telecommunications operators, defining markets and evaluating market power of individual operators and defining regulations
- Government ICT Ministries: policy and strategy definition for the telecommunications and ICT sectors, including implementation of telecommunications industry regulator

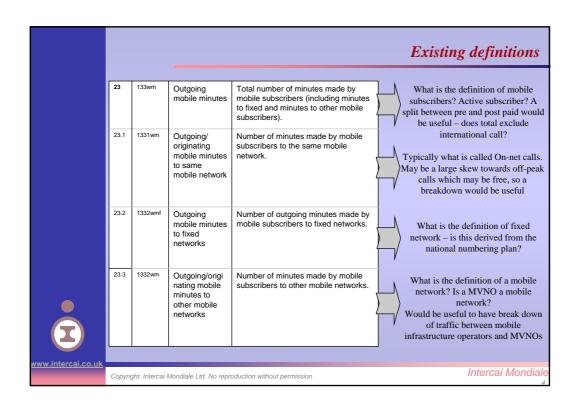


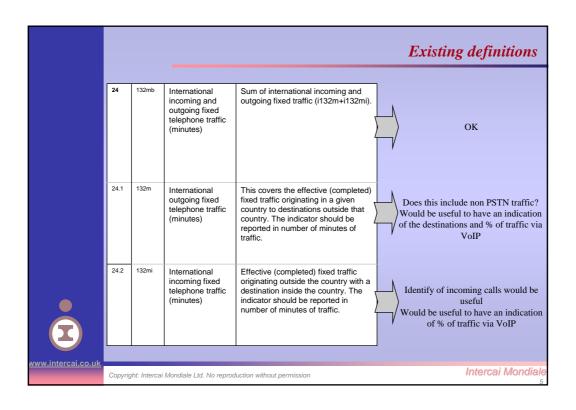
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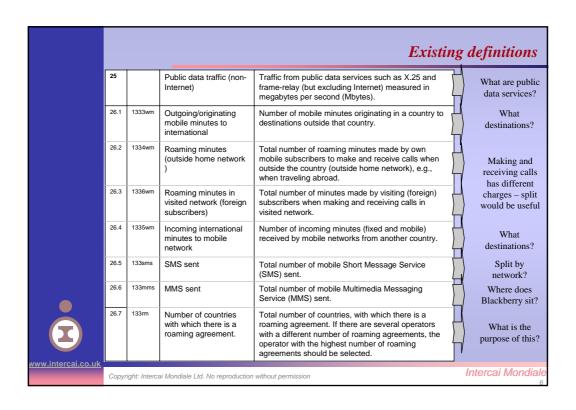
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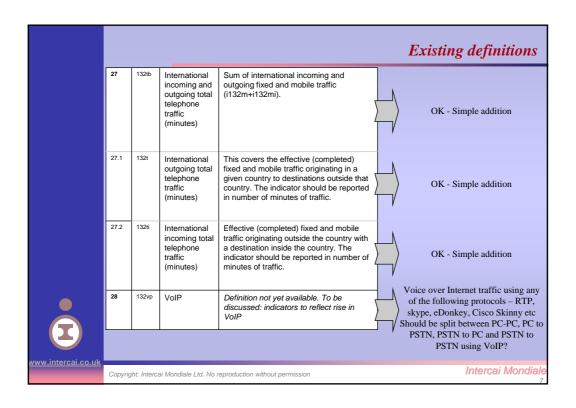
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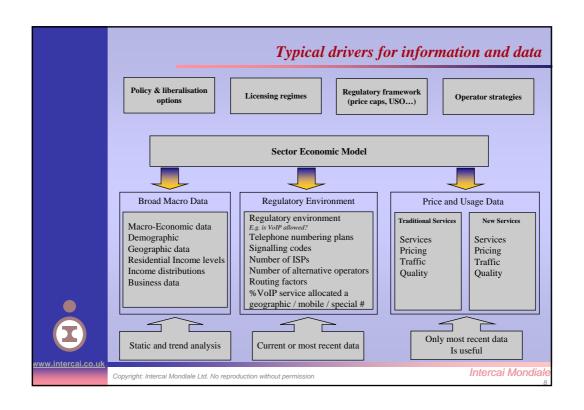
|      |        |   |   | Existing definition   |
|------|--------|---|---|---|
| 21   | 1311m  | Local<br>telephone<br>traffic<br>(minutes)          | Local telephone traffic consists of effective (completed) fixed telephone line traffic exchanged within the local charging area in which the calling station is situated. This is the area within which one subscriber can call another on payment of the local charge (if applicable). This indicator should be reported in the number of minutes. | Would be useful to have split between calls within an RCU, with a local switch and calls that need travel to another switch within the same charging zone |
| 22   | 1312m  | National trunk<br>telephone<br>traffic<br>(minutes) | National trunk (toll) traffic consists of effective (completed) fixed national telephone traffic exchanged with a station outside the local charging area of the calling station. The indicator should be reported as the number of minutes of traffic.   | National trunk as a aggregate sun<br>may not be useful when you may al<br>have regional calls   |
| 22.1 | 1313wm | National fixed<br>to mobile<br>traffic<br>(minutes) | Total outgoing minutes from the national fixed network to the mobile cellular network within the territory.   | What is the definition of fixed here Does it exclude nomadic services   |
| 22.2 | 1311im | Internet Dial-<br>up traffic<br>(minutes)           | The total volume in minutes of dial-up sessions over the public switched telephone network to access the Internet.  | Do we need to split of PSTN dial-<br>and ISDN?  |

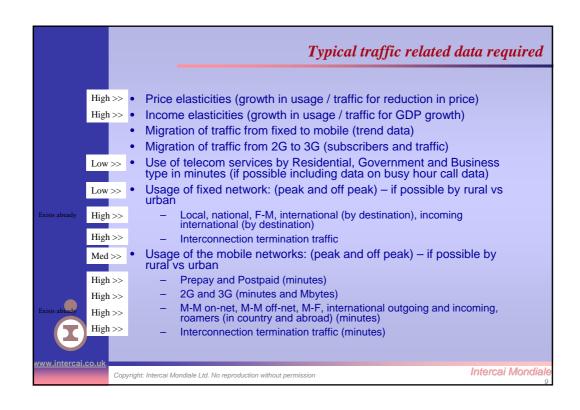


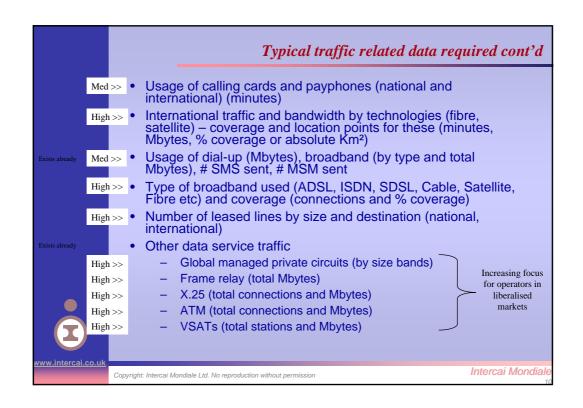


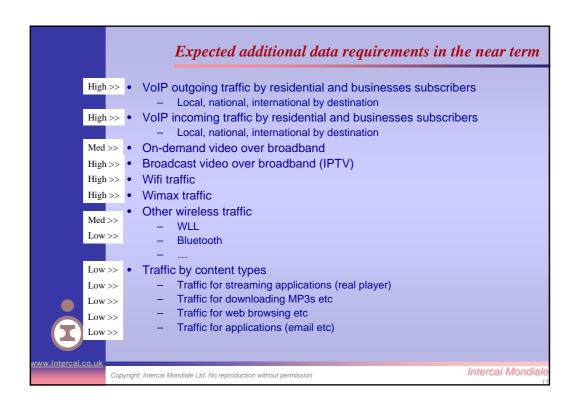


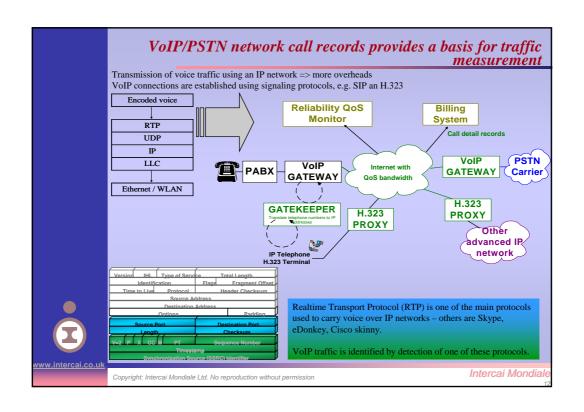




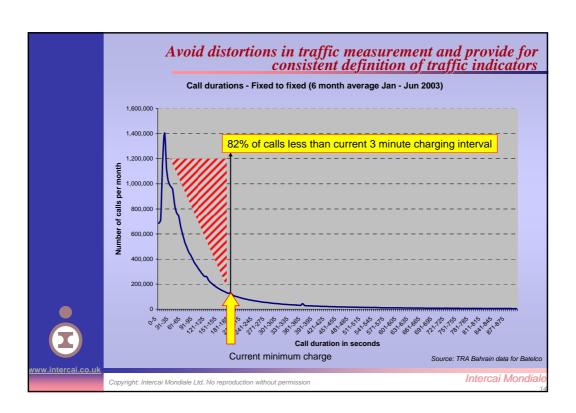








## Practical issues for consideration **PSTN** Traffic captured in the switch through CDR records Traffic collected at the retail and wholesale billing system Reported traffic typically captured from the OUTPUT from the billing systems by reverse engineering the revenues by tariffs \*\* Charging may be done in units or increments Tariffs change over time, so using an average or latest will give incorrect traffic data If cost based pricing has not been implemented, actual traffic (e.g. local, national) may not be accurately calculated by reverse engineering Data and Internet Captured due to possible requirement to pay carrier for aggregate traffic Can be reported through aggregation of actual traffic at each router or modem for all licensed operators Voice over IP and Video over IP traffic Typically not reported In many cases not collected at a national level Operators may use network management tools (sniffers) to detect, block or monitor VoIP traffic Possible for regulators to enforce reporting obligations – easier in many of the less developed telecoms markets where only a few operators exist Need to balance benefits of data versus cost imposition upon operators Many countries do not report all traffic data or provide data which is unverified and inaccurate Copyright: Intercai Mondiale Ltd. No reproduction without permission





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