



ITU Regional Workshop on SMS4DC for  
English Speaking countries in Africa.

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**Preparatory Questions for SMS4DC installation, training and efficient use**

- 1 What national legislation controls the management of the spectrum in this country?
- 2 Is this legislation publicly available (preferably in English)?
- 3 What government departments have been given the authority to manage (parts of) the spectrum (by means of this legislation)?  
(Note: a typical arrangement is to have two authorities: one for government spectrum use (in particular for military use) and the other authority for civilian use. Some administrations might include other departments, for example a broadcasting authority.)
- 4 Is there a National Frequency Allocation Table showing clearly how the spectrum management responsibilities have been divided between the different authorities? Will this be made available to the SMS4DC experts? **It is an essential requirement for the SMS4DC installation to be programmed with frequencies available for civilian use (Government use could be included if requested).**
- 5 Are there channel arrangements in use? **These show detailed technical planning of the various frequency bands e.g. lists of frequencies showing channel spacing/bandwidth, go and return frequencies for duplex (2-frequency channels); use of ITU-R recommended arrangements for fixed services etc. SMS4DC cannot assign frequency unless programmed with the channel plans.**
6. Is there a database of actual frequency use? **This could be a paper-based or electronic record of frequency assignments, e.g. showing frequencies assigned, designation of emission (modulation type/bandwidth), geographical location, transmitter power (or effective radiated power), antenna type/height, owner/licensee information which can be entered into the SMS4DC**
- 7 Is there a licensing system? What application forms are used, fee structure etc.  
**This is required to design the license and invoice forms**
- 8 What manual methods are used to assign frequencies? Are there frequency assignment and licensing policies?
- 9 Is there a monopoly telecom operator? Are frequency bands assigned to the operator for self-management?
- 10 If there are competing operators, how many are licensed and for what type of services: mobile phone systems, point-to-point links etc.? Are frequency (sub) bands assigned to operators for self-management?
11. What plans are there for broadcasting development? Further expansion of the analogue networks? Digital switchover date?
- 12 Is there a spectrum monitoring capability? **In order to be linked to the SMS4DC**

- 13 How many staff are involved in spectrum management? Categories: engineer, licensing/administrative. How many expected to attend the SMS4DC training.
- 14 What computer systems are available for SMS4DC installation (and training). **In order to compare it with the system requirements (See the Installation Manual)**
- 15 **The trainees have to have basic knowledge on spectrum management (e.g. wave propagation, interference calculation, licensing process)**