Training on Spectrum Management System for Developing Countries (SMS4DC) for Pacific

30 April – 2 May 2024

# PITA 28th AGM, Annual Business Forum and Expo

# 29 April - 2 May 2024

Port Villa, Vanuatu

**Background:**

As one of the products of BDT, Spectrum Management System for Developing Countries (SMS4DC) provides various functionalities to automate the national spectrum management and RF monitoring activities.

ITU member Administrations from Pacific sub-region are using the SMS4DC for their respective national spectrum management automation. SMS4DC licenses for these administrations were purchased by PIRRC as a part of their technical assistance programme and a Pacific sub-regional training was organized in 2017 by ITU and PIRRC for technical skills development.

ITU regional office for Asia and the Pacific (RO-ASP) has been receiving requests from its Pacific membership to conduct a training of staff on the software tool to ensure that relevant technical staff in administrations update their skills on the tool. Responding to these requests, ITU would conduct a regional training for Pacific membership on the tool during the PITA Annual General meeting in Vanuatu.

**Target audience**

This training is targeted towards technical staff from Pacific ITU member Administrations using the tool and who are responsible for the national spectrum management and RF monitoring.

**The trainees are expected to have basic knowledge of spectrum management (e.g., wave propagation, interference calculation, licensing process).**

**Training delivery method**

Due to the practical nature of training and limitation of the available license keys, the participants are expected to:

1. Bring their computing device with SMS4DC installed. (version 5.2)
2. Bring their hard license keys of SMS4DC
3. Bring a copy of database of their national spectrum management to ensure that exercises are conducted using actual data as much as possible.

**Summarized Event details**

* **Venue**: Port Villa, Vanuatu
* **Event dates**: From 29 April to 2 May 2024 during PITA AGM.
* **Webpage**: <https://www.itu.int/en/ITU-D/Regional-Presence/AsiaPacific/Pages/Events/2024/SMS4DC%20Pacific%2024/main.aspx>

**Draft Program**

Meeting room: **PASIFIC 2**

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| **DAY 1: Monday, 29th April 2024 Introduction** | |
| 08h00-10h30 | **Introduction**   * Introduction to SMS4DC * Administrative Functions of SMS4DC * Engineering Analysis Functions * Graphical User Interface Functions * Creating station FM, FXM, FX * Antenna Editor * NTFA (National Table for Frequency Allocations) |
| **DAY 2: Tuesday, 30th April 2024 Engineering Functions** | |
| 09h15-10h45 | **Practice exercise**   * SMS4DC Frequency arrangement and Frequency Assignments in SMS4DC * Channel Arrangements Spectrum Engineering and Propagation Models |
| 10h45-11h00 | **Break** |
| 13h30-15h30 | **Practice exercise**   * Parameters of different Propagation Models in SMS4DC Spectrum Planning framework |
| 15h30-16h00 | **Break** |
| 16h00-17h15 | **Practice exercise**   * Point to point, point to multipoint, point to area radio networks Establishment in SMS4DC |
| **DAY 3: Wednesday, 1st May 2024 Coverage calculations** | |
| 13h30-15h30 | **Practice exercise**   * Network calculation, aggregate field strength, maximum server and best server analysis, coverage area, using SMS4DC. * Visualizing results on Google earth |
| 15h30-15h45 | **Break** |
| 15h45-17h30 | **Practice exercise … continued**   * Link budget, visibility and availability calculation in point-to-point systems Interference Analysis * Interference Calculation in SMS4DC |
| **DAY 4: Thursday, 2nd May 2024 Database functions** | |
| 09h00-10h45 | **Licensing functions Practical exercise**   * Spectrum Licensing * Access to SMS4DC Licensing Process * Creating notice for submission to ITU using SMS4DC * Other spectrum issues with interactive discussion * Feedback   End of Training |