SANTOS VLT: On Board System Management

# Referenced Documents

[1] 9950-18134-00002045-194- Santos LRT - OBCU Maintenace Manual\_Ed003.pdf

[2] 9950-18134-00002046-194- Santos LRT - DCI User Manual-Ed004.pdf

[3] 2015-12-18\_Santos LRT\_Radio\_Manager\_WP.pdf, “Radio Sepura Configuration White Paper”

# OBCU configuration from scratch

**NOTE: You will need a Monitor and a keyboard to perform this check.**

## BIOS Configuration

Follow instruction on [1] §2.1, §2.2

## System initialization using OBCU’s USB DISK

After configuring the OBCU BIOS plug the OBCU USB disk and power off/power on the OBCU and wait around 10 minutes (see notes on [1] §2.2)

# DCI configuration from scratch

**NOTE: You will need a Monitor and a keyboard to perform this check.**

**NOTE: DCI 2 and OBCU are installed in the same cabin (CAB B), DCI1 is installed in CAB A**

## BIOS Configuration

Follow instruction on [2] §3.1.2

## System initialization using DCI1 DCI2’s USB DISK

Follow instruction on [2] §3.1.2

# On train OBCU and DCI Software Update

**NOTE: You need Laptop configured properly below there are instruction to do that**

## Laptop Configuration (Windows OS)

#### Pre-requirements

**NOTE: you have to perform this steps to configure a new laptop**

1. Install python software (v 2.7) ([www.python.org](http://www.python.org)), (check the last voice “Add Python to Path” which is unchecked)
2. Download and install VCforPython27 from Microsoft
3. Open a command line and digit

pip install scp

pip install fabric

#### Network interface configuration

Configure your laptop network with:

IP 192.168.0.242

NETMASK 255.255.0.0

#### OBS Local Software Update Tool

Copy the OBS\_LOCAL\_UPDATE directory on the laptop filesystem, for example in C:\

## Software Update

Execute a command line (push windows button) and move current directory to OBS\_LOCAL\_UPDATE one, for example if you copied in C:\ digit

cd c:\OBS\_LOCAL\_UPDATE

then digit on the shell

fab updateAll

then digit on the shell to install the last software update contained in the OBS\_LOCAL\_UPDATE folder. To install new released software you have to copy the new software in OBS\_LOCAL\_UPDATE folder before launch the command.

OBCU, DCI1 and DCI2 will be updated and rebooted. The process will take around 15’minutes

## Train ID assignment

Execute a command line (push windows button) and move current directory to OBS\_LOCAL\_UPDATE one, for example if you copied in C:\ digit

cd c:\OBS\_LOCAL\_UPDATE

then digit on the shell

fab setTrainId

answer to the request

Insert new TrainID(1-999):

with the number of the train and answer Y to reboot

# Radio SEPURA Configuration

Follow the instruction on [1] SANTOS LRT: Radio Manager White Paper