

QUICK GUIDELINE

FOR

implementing updates to STBs for Georgian DBA

Labwise Ltd 11.9.2014

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1 INTRODUCTION

This document summarizes and lists guidelines for the common areas of improvement after the pre-tests that were performed for the shortlisted set-top box (STB) vendor candidates in the DVB-T2 project of Georgian DBA.

Kindly note that the official acceptance criteria of Georgian DBA is not included in this document. Georgian DBA reserves the right to continue the RFP process with technically fully, partly, or non-compliant products based on also other criteria than what revealed by the pre-test results.

2 PRE-TEST RESULTS

The pre-test results of the tested STB devices showed typical symptoms of hastily prepared samples without much consideration yet for the product customization or localization according to the actual local requirements.

The tests also revealed three typical areas of non-compliances and quality issues often encountered in this STB product segment:

- Problems with integrating the tuner chipset to the rest of the usability concept
 - o Channel search scanning with wrong frequencies or wrong channel raster
 - Products not finding all the channels in the network
 - Problems with collecting the channel list correctly
 - Problems with implementing the best service selection
- Problems with HD audio and/or HD video representation
 - o Bad-quality or non-existent multichannel audio from the A/V outputs
 - Problems with transcoding between multichannel audio formats or transcoding to stereo audio output
 - Bad-quality or non-existent HD video from the A/V outputs

11.9.2014



- Problems with dynamic features during transitions
 - Problems updating and/or storing the EIT data for the electronic program guide (EPG) or the current/following program info banner
 - Problems reacting to the moving, addition or removal of channels and/or multiplexes in the network
 - Problems with selecting the priority of outputting correct audio, video or subtitling format from a service containing multiple A/V and subtitling tracks, or following them during program changes, or keeping them according to user preferences.

3 GUIDELINES AND FURTHER INFORMATION

In order to support product implementation, further information and guidelines can be obtained from publicly available general purpose specifications.

Many of the product requirements are derived, for example, from the common NorDig specification family, with local adjustments and customizations. The NorDig documents are freely available for downloading from www.nordig.org/specifications. These documents have comprehensive and well defined requirements and test tasks for terrestrial channel search and tuning functions in DVB-T2 networks. Also, the dynamic features of a DVB-T2 network, their PSI/SI signalization and the related behaviour of the STB are comprehensively included. The markets using the NorDig specification as their basis have been also pioneering the HDTV broadcasting, therefore the HD-video and multichannel audio features are typically well defined. It should be possible to cross-check similar requirements and test tasks with the NorDig specifications and find further implementation guidelines that way.