

# Amendment to NorDig Unified Requirements ver. 3.2.1 specifications concerning accessibility

## 1. Introduction

This present document is an **Amendment to NorDig Unified Requirements ver. 3.2.1** including updates / recommendations and changes concerning accessibility services.

Since it is only minor changes and recommendations to the NorDig Unified Requirements vers. 3.2.1 this amendment is released and not an update of the specification.

The changes and updates included in this amendment to NorDig Unified Requirements is planned to be included in next version.

**Please note** that NorDig don't release an amendment to NorDig Rules of Operation ver. 3.2.1 since there is no changes or updates planned for accessibility services.

The requirements in the NorDig Unified Requirements specification support as minimum the requirements in the EU regulations about accessibility for consumer IRDs / TV receivers.

This amendment includes updates and changes to support best quality of accessibility services and development of future accessibility services.

## 2. NorDig Accessibility package

This **Amendment to NorDig Unified Requirements specification ver. 3.2.1** is part of **NorDig Accessibility package** which also including the documents "NorDig Accessibility package" describing the purpose and content of the package, "NorDig IRD v3.2.1 supported Accessibility Services" and "Accessibility services based on HbbTV\_NorDig recommendations".

## 3. Changes and updated chapters

Amendment changes and updated chapters:

**Yellow highlight marking** marks changes in text compared to NorDig Unified IRD v3.2.1:

**New modified text:** without strikethrough marks new additional text.

**Removed text:** with strikethrough marks old text proposed to be removed.

Here below updates and changes (only minor changes and recommendations) to NorDig Unified IRD v3.2.1 chapters:

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### 8.7.3 Accessibility

Functionality which is directly related to accessibility features (Subtitles, Supplementary audio, Dialogue Enhancement, Talking menus etc.) should also be implemented in an easily accessible area **at of** any IRD **User Interface / Remote Control**. See chapter 13.6

It is recommended that the manufacturer on for example their developer website includes information about remote controls and in particular accessibility features and services so that the development of special remote controls for accessibility services can be done as easily and correctly as possible.

#### 8.7.4 Grouping of User Control settings

NorDig recommends device manufacturers to use good practice when considering the layout of core remote control functions. This applies whether the implementation is as a set of physical buttons or rendered as an on-screen display. Good practice would typically dictate that common functions are grouped in reasonable, useable proximity to each other. This recommendation would, for example, include:

- Number buttons being grouped
- PVR buttons being grouped
- Colour buttons being grouped
- Arrow buttons, OK/select, Back and Exit being grouped
- Accessibility buttons being grouped (e.g. Audio description and Subtitling)

All buttons within a group should be presented in equal way for the user to select between all buttons in the group (for example during an IRD status mode of presenting EBU Teletext page all colour buttons should be presented and not just one colour button at the time).

For clarity, this recommendation does not mean all the above functions need to be grouped.

#### 13.3.2.5 ESG presentation filtering of EIT data

The NorDig IRD should provide a function which allows the user to filter events in the ESG with the same content type (from content descriptor), events belonging to the same series (from content identifier descriptor), recommended events referred to by an event, accessibility events (from component descriptor like audio description and hard of hearing component types) and to search events using keywords (from description).

### 13.6 Accessibility menus and settings

#### 13.6.1 Accessibility settings

The NorDig IRD should support easy access to settings for Accessibility Services by:

- Ensuring that Accessibility settings are made available using a minimum number of user interaction steps (e.g., by use of dedicated remote-control buttons),
- Grouping Accessibility settings together within the IRD's user interface for easy access to accessibility services.

See 8.7.5

Note 1: Only applicable/mandatory for NorDig HEVC IRD.
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