RB-Matchmaker

Concept for Expert Based Rules

# Rules for identification of Conflicts (handicap situation):

1. If userPref ForegroundColour = white AND userPref BackgroundColour = black AND environment platform = Windows Version 7 THAN (set Windows > Personalization > High Contrast = Contrast white) AND (activate magnifier AND set inverse colours for magnifier, magnification)

* Comment: Conflict because colour theme sets not application colours, mostly for windows and Dialogs. Solution: combination of high contrast theme and magnifier.

1. If userPref ScreenReaderTTSEnabled = true AND condition = LaunchAtStartUp AND environment platform = Linux Debian GNOME 3.2 OR GNOME 3.4 THAN enable Orca AND provide feedback output with a link for help.

* Comment: Conflict occurs only if user is going to use desktop. Basic functions (Menus, Settings) are usable. Solution is not clear yet.

1. If userPref ScreenReaderTTSEnabled = true AND condition = LaunchAtStartUp AND environment is Linux KDE THAN Starting Console and BrlTTY.

* Comment: Conflict because KDE does not support a screen reader yet.

1. If userPref ScreenReaderTTSEnabled = true AND condition = LaunchAtStartUp AND environment loudspeaker are muted THAN unmute loudspeaker

* Comment: Conflict because user does not hear speech output. Requirement for this is that we have information about state for loudspeaker.

1. If userPref ScreenReaderTTSEnabled = true AND condition = LaunchAtStartUp AND no preference About AT is known AND plattform = windows THAN activate NVDA.

* Comment: Conflict when activating Narrator because it is not a real screen reader

1. If userPref ScreenReaderBrailleOutput = true AND plattform is Fedora 8 AND BrlTTy is not installed THAN install brltty (version 3.8) using 'yum install brltty AND enable braille for ORCA.

* Comment: Conflict if no BrlTTy is not installed. Orca is using BrlTTy for braille support.. Conflict occurs for conditional preferences: launchAtStartup, ContentType.
* TODO: verify if BrlTTy comes with Fedora 8 (asking Javier).

1. If userPref background=black and foreground=white and target context is Samsung with windows 7 and context is mail client THAN ???

* Comment: Conflict because mail client of this device only supports black foreground and white background!

1. If userPref ScreenReaderTTSEnabled = true AND userPref SpeechRate > 390 AND environment platform = Linux AND environment TTS = eSpeak THAN activate ORCA booster (set the eSpeak configuration vor max rate from 390 to 450; library libsonic is used by eSpeak than).

* Conflict: Linux do not support speech rate greater than 400 words per minute.

1. If userPref ScreenReaderTTSEnabled = true AND userPref SpeechRate > 390 AND environment platform = Windows AND environment TTS = eSpeak (NVDA) THAN activate Turbo checkbox in NVDA.

* Conflict: Linux do not support speech rate greater than 400 words per minute

1. ( If userPref MagnifierEnabled = true AND condition = LaunchAtStartUp) AND (userPref ScreenReaderTTSEnabled = true AND condition = ContentType = large text) AND context is long text THAN activate screen reader, disable Magnifier.

* Conflict: Magnifier and Screen reader should not be used in parallel.

1. If context contentType = pdf AND userPref foreground = white and background = black THAN activate foxitReader and set default colour settings to Use Windows Color Scheme.

* Conflict: pdf-Reader does not consider preferences of magnifiers if the pdf defines colours for background and foreground. With Foxitreader you can set individual colours preferences for pdf documents.