**Web Interface –**

**adaptation for Alignment procedure  
for  
ULC (HSU)**

**System Requirements**

By

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P:\HighLink\Groups\System\Docs\P2MP\ULC\AlignOnWeb\_Spec.docx

Revision History

|  |  |  |
| --- | --- | --- |
| **Revision** | **Date** | **Description** |
| 1.0 | Nov 20th, 2016 | Preliminary |
|  |  |  |
|  |  |  |

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# Scope & Background

This document handles the required adaptation in order to install the ULC using the Web Interface, without WinTouch application (actually if the unit is without Gyro).

# Acronyms, Abbreviations & Terms Definitions

The acronyms and abbreviations used within this document are detailed in the following table:

| Acronym | Description | Acronym | Description |
| --- | --- | --- | --- |
| HBS | The ODU in the base station | HSU | The ODU in the customer side  (Subscriber Unit) |
| ULC | Ultra-Low Cost HSU | WI | Web Interface |
| WinTouch | Technician application for HSU installation | TO | Timeout (timer) |
|  |  |  |  |

# Detailed explanation

## General

The ULC installation is based on the WinTouch application which enables the user to connect to the BEST HBS in the area.

We should enable the user to install ULC (or any other HSU) even without the WinTouch application. The following cases are relevant:

1. No Smartphone exist.
2. The user just wants to improve the quality (without having the Project & Work order)
3. The user installed the TurboGain Antenna and wants to ReAlign.
4. The HSU does not contains Gyro

***For these cases we need to have a clear way to align using the Web Interface.***

***Details below***

## Identify

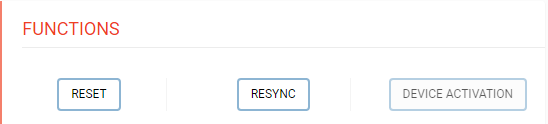
Web interface behavior

|  |  |  |
| --- | --- | --- |
| **HSU mode**  **Gyro** | **Inactive** | **Active** |
| **Exists** | ***User need to "Activate the unit" before the Alignment.***  ***Then the user can view current/Best RSS and Align*** | User can view current/Best RSS and Align |
| **Not exist** | **N/A**  If Gyro does NOT exist the unit should be shipped "Active"  (Anyway the user can activate the unit and continue). | **User can view current/Best RSS and Align** |

## Bypass alignment

In case Gyro exists and still the user cannot use the WinTouch, he is required to activate the unit (actually bypass Alignment) using a hidden button (relevant only if Unit is Inactive):

Tools🡪Operations🡪Functions🡪Device Activation



## Web Interface GUI

Install the unit with mechanism similar to the Buzzer.

If the unit is "Active" the user should be able to view the RSS in a larger window for Alignment.



A popup window should be opened by clicking on the  (should catch **all/most of the screen**)



**Notes**:

1. The Web Client should monitor the RSS value **ONCE a second** (as all the Web Interface)
2. The user can see the current RSS, Best RSS (with line, from the time the window was opened) and can choose the graph scale time (all using regular monitor value: Downlink RSS).
3. The Best RSS is the highest value since the window was opened.
4. The user is also able to **RESET** the Best RSS value (which is managed by the Web Client).
5. Graph scale from -90 to -40.
6. If the unit belongs to the **RADIUS** registration (and it is NOT registered), an extra button will be added in order to finish installation (the button "Finish" set also the value for the Radius confirmation as done in regular HSU by the Manager)
7. This screen should be **responsive** as well and can be used in Smartphone.
8. In case the unit is in "InActive" state, we have to implement ONE of these 2 options:
   1. Disable the "magnifying glass" symbol OR
   2. Open the large screen and display "Unit is not Active"

## Buzzer

TBD

# Open Issues

|  |  |  |
| --- | --- | --- |
| **Num** | **Open Issue** | **Solution** |
|  | Radius | A "Confirm Installation" button that appears only if the HSU is Radius oriented (as implemented in Direct NMS) |
|  |  |  |
|  |  |  |