

## Application Note – Changing the RBT004 Sector Sampling Period

### 1. Background

By default the 3 1/8" UW RBT transmits sector waveform data between 170 and 370us. When logged in large diameter pipes and oil-based muds, the transit time for the first arrival on the radial sector receivers can be greater than 400us. As a result, the first arrival can be missed in extreme conditions.

The following instructions explain how to change the sector sample period in the tool, so lengthier transit times can be captured and transmitted to Warrior.

### 2. Determine the desired sample period

Calculate the expected first arrival transit time and select the most suitable Ultralink command file.

There are 4 options available and each option has its own unique command file;

| Sample period  | File name     | Comments        |
|----------------|---------------|-----------------|
| 170us to 370us | 170-370us.ulc | Factory default |
| 220us to 420us | 220-420us.ulc |                 |
| 270us to 470us | 270-470us.ulc |                 |
| 320us to 520us | 320-520us.ulc |                 |