Wait, ResponseTimeout, DigitTimeout, & AbsoluteTimeout

'Wait' Application

The '**Wait**' application takes one argument, the number of seconds to wait. During the time waited, all frames received on the channel, including DTMF, are silently ignored. Typically, the '**Wait**' application is used prior to answering the channel. See the '**Answer**' application.

Wait returns 0 normally or -1 if it was interrupted.

> **Example:**
> This example will wait 30 seconds (typically about 6-7 rings) before answering the channel.
>
> exten => s,1,Wait,30
> exten => s,2,Answer

'ResponseTimeout' Application

The '**ResponseTimeout**' application takes one argument, in seconds. After falling through all priorities for an extension, the user must begin entering a new extension within the number of seconds specified by the '**ResponseTimeout**' application. If no digits are received, Asterisk will jump to extension t, the timeout extension. If not specified in the dialplan path, the **ResponseTimeout** will default to 10 seconds. **ResponseTimeout** always returns 0.

> **Example:**
> This example will play a request for the user to enter an extension and repeat that request ad infinitum, if the user has not entered an extension after 15 seconds.
>
> exten => s,3,Background,enterextension
> exten => s,4,ResponseTimeout,15
> exten => t,1,Goto,s|3

'DigitTimeout' Application

The '**DigitTimeout**' application takes one argument, in seconds. Once a user begins typing an extension, the user has a maximum of **DigitTimeout** seconds to type additional digits before Asterisk considers the extension to be complete. If not specified in the dialplan path, the '**DigitTimeout**' application will default to 5 seconds. The '**DigitTimeout**' application always returns 0.

'AbsoluteTimeout' Application

The '**AbsoluteTimeout**' application takes one argument, in seconds. **AbsoluteTimeout** specifies the maximum number of seconds permitted for a call. If not specified in the dialplan path, the default, 0, is a special value which specifies that the channel will never timeout. The '**AbsoluteTimeout**' application will reset the timeout counter each time it is encountered in the dialplan path.

> **Example:**

This example will limit the caller to 60 seconds at the main menu before the channel will be automatically hungup. Note that when a **ResponseTimeout** occurs (changing to extension t), the **Goto** does not re-execute the '**AbsoluteTimeout**' application, as that would reset the timer for the call (in effect, unless the length of the enterextension greeting and **ResponseTimeout** together exceeded the **AbsoluteTimeout**, the call timer would be continually reset and never have an opportunity to timeout).

```
exten => s,1,Answer
exten => s,2,AbsoluteTimeout,60
exten => s,3,Background,enterextension
exten => t,1,Goto,s|3
```