THE ARQ FAE BEACON EASY WITH MULTIPSK (4.11) in 141A and ALE400

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Introduction

This document explains how to use the ARQ FAE beacon and, for a Ham, to connect the beacon (snapshots of Multipsk screen with indications to the « how to operate »). This beacon will be used in 141A and ALE400 modes.
It is based on ALE400 and applicable to 141A (except that in 141A, there is no need to manage the Slave/Master mode, the AFC and the RS ID detection).

Keep in mind that the basic ARQ FAE functions in 141A and ALE400 modes are described in :
http://f6cte.free.fr/ARQ_FAE_in_141A_and_ALE400_easy_with_Multipsk.pdf

Notes about the help in Multipsk:
- To bring up the text help (contextual one), click on the right button of the mouse, with the focus over the mode button "ALE400", for example).
- Also use the button hints (wait a fraction of second over a button).

Abstract of the ARQ FAE beacon use

With this function, a beacon message (45 characters maximum) is sent regularly (with an interval of time defined by the user), to other Hams.
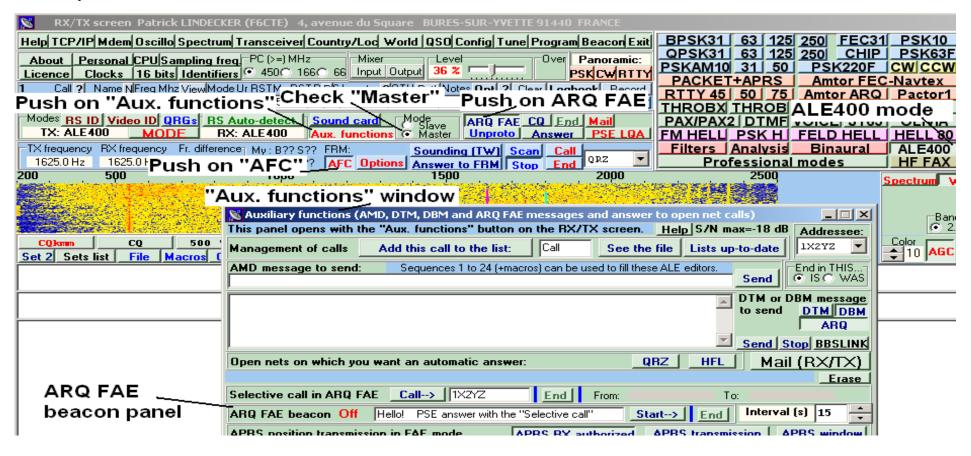
It will be received, for example, the following frame:
"BCN F6CTE Hello!   PSE answer with the <Selective call>"

Any Ham will be able to answer with a selective call (the addressee being the beacon). On reception of the beacon frame, the <Selective call> callsign editor will be automatically filled with the beacon station callsign. So the Ham will have only to click on the button "Selective call in ARQ FAE... Call-->" to initiate a connection with the beacon, to do a QSO, a transmission of mail with or without file or APRS position (see the previous paragraph about Selective call).

At the end of the QSO, the beacon, automatically, will start again the regular message transmission.
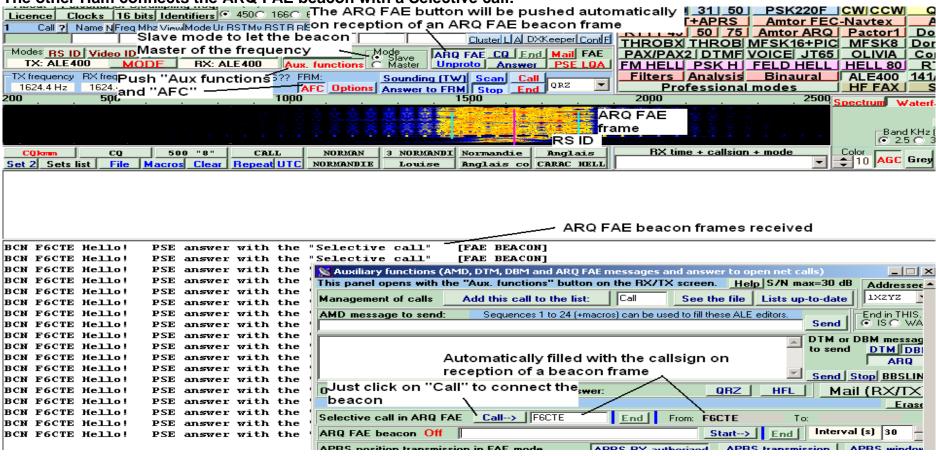
Preparation of the ARQ FAE beacon in ALE400

Start up of the ARQ FAE beacon in ALE400

The other Ham receive the beacon message and on reception of the beacon frame, the <Selective call> callsign editor is automatically filled with the beacon station callsign.
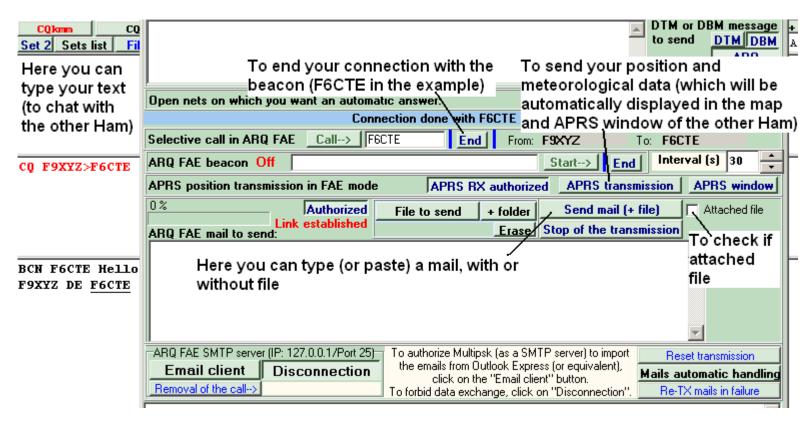**The other Ham connects the ARQ FAE beacon with a Selective call:**

The ARQ FAE button will be pushed automatically on reception of an ARQ FAE beacon frame

Slave mode to let the beacon Master of the frequency

Push "Aux functions" and "AFC"

ARQ FAE frame

RS ID

ARQ FAE beacon frames received

```
BCN F6CTE Hello!    PSE answer with the "Selective call"    [FAE BEACON]
BCN F6CTE Hello!    PSE answer with the "Selective call"    [FAE BEACON]
BCN F6CTE Hello!    PSE answer with the
BCN F6CTE Hello!    PSE answer with the
BCN F6CTE Hello!    PSE answer with the
BCN F6CTE Hello!    PSE answer with the
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BCN F6CTE Hello!    PSE answer with the
BCN F6CTE Hello!    PSE answer with the
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Automatically filled with the callsign on reception of a beacon frame

Just click on "Call" to connect the beacon

The connection has been done :

```
BCN F6CTE Hello!    PSE answer with the
F9XYZ DE F6CTE
```

F9XYZ has connected the F6CTE beacon

Connection done with F6CTE

After the connection, you can (without disconnection):
* conduct standard QSO,
* send your APRS position
* send an email with or without file transmission in ARQ FAE

For details, see the document « ARQ_FAE_in_141A_and_ALE400_easy_with_Multipsk.doc » downloadable at
http://f6cte.free.fr/ARQ_FAE_in_141A_and_ALE400_easy_with_Multipsk.doc.
The only difference with this document is that you must stay in « Slave » mode as the beacon is the Master of the frequency.