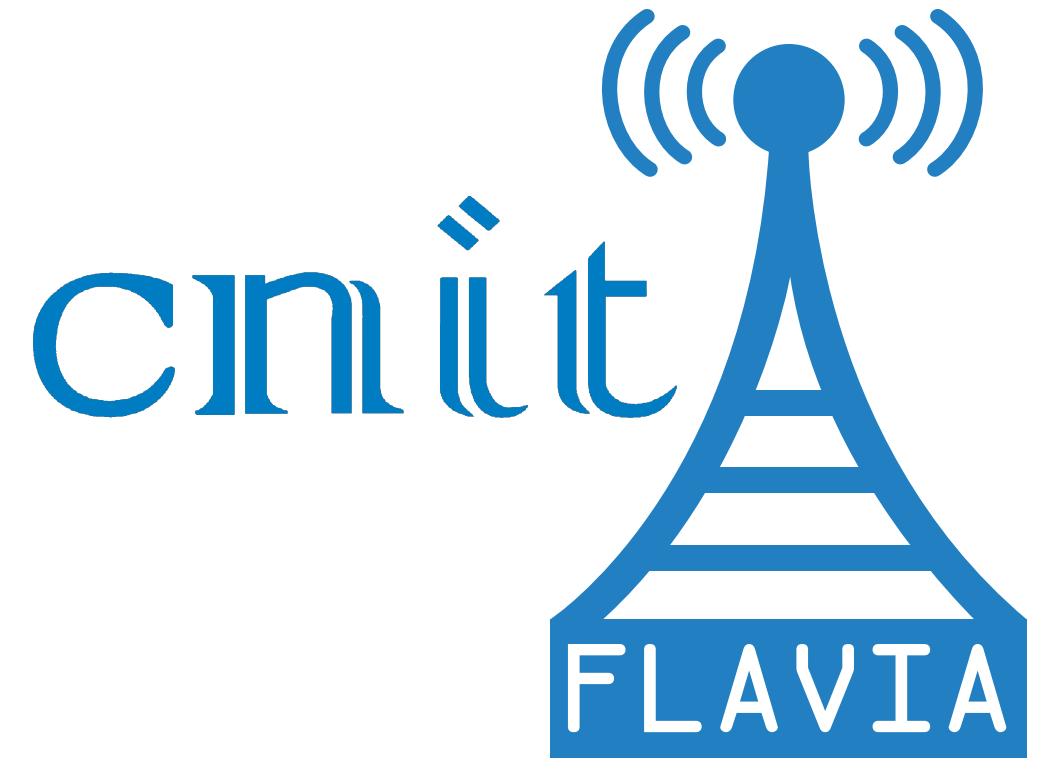


Wireless MAC Processor

enjoy programming **your** MAC



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What is the Wireless MAC Processor

The WMP is a programmable wireless card able to: (i) work as a standard WiFi card; (ii) implement enhanced non-standard behaviors; (iii) read low-level PHY signals & events.

The WMP permits to change MAC rules, to tune MAC/PHY parameters and to read PHY events.

MAC rules

Channel access timing (RND, TDMA, etc.)
Contention window update law
ACK policy and frame handshake
Channel selection policy

MAC / PHY parameters

- o backoff slot
- o inter-frame space
- o min/max contention window
- o channel selection

PHY signals

- o RSSI
- o AGC
- o CH_UP
- o CH_DOWN
- o RX_ERROR
- o TX_IN_PROGRESS
- o TIMER_EXPIRATION

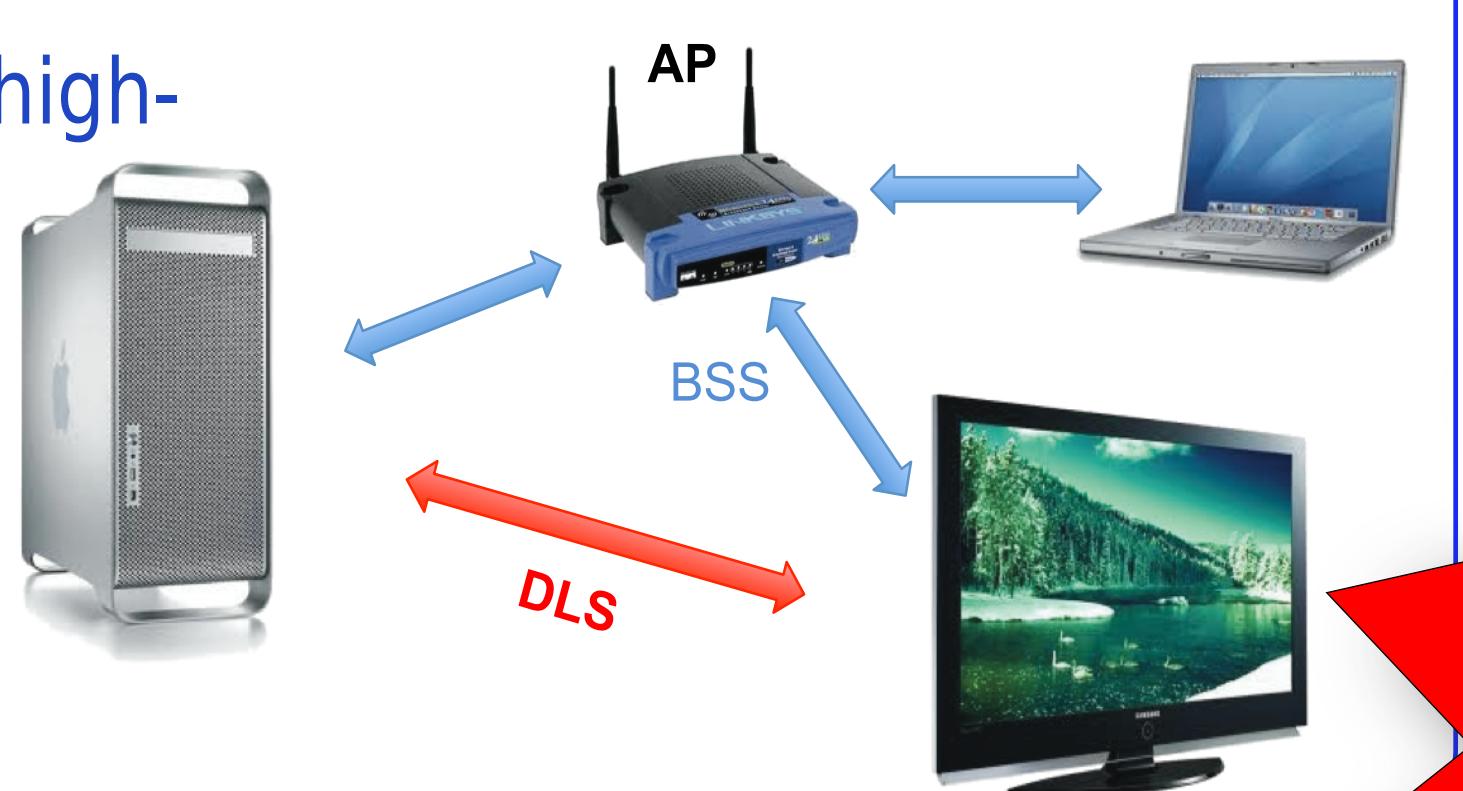
Where you can use it

At home

Build your direct link setup between media devices. No more low quality videos because of your wireless network.

Deploy tailored high-throughput solutions

Make your network better than your neighbor's one.



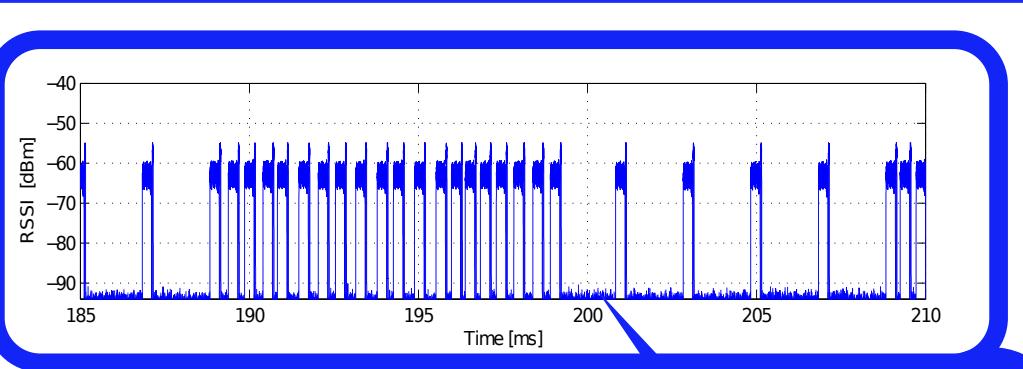
Compatible with existing legacy devices!

Outside

Plan and deploy your timing for long-distance links;
Use tailored high-throughput solutions;
Deploy your MAC on hundred of devices from your desk without accessing remote sites;
Design special MACs for highly directional antennas;
Design automatic channel selection mechanisms



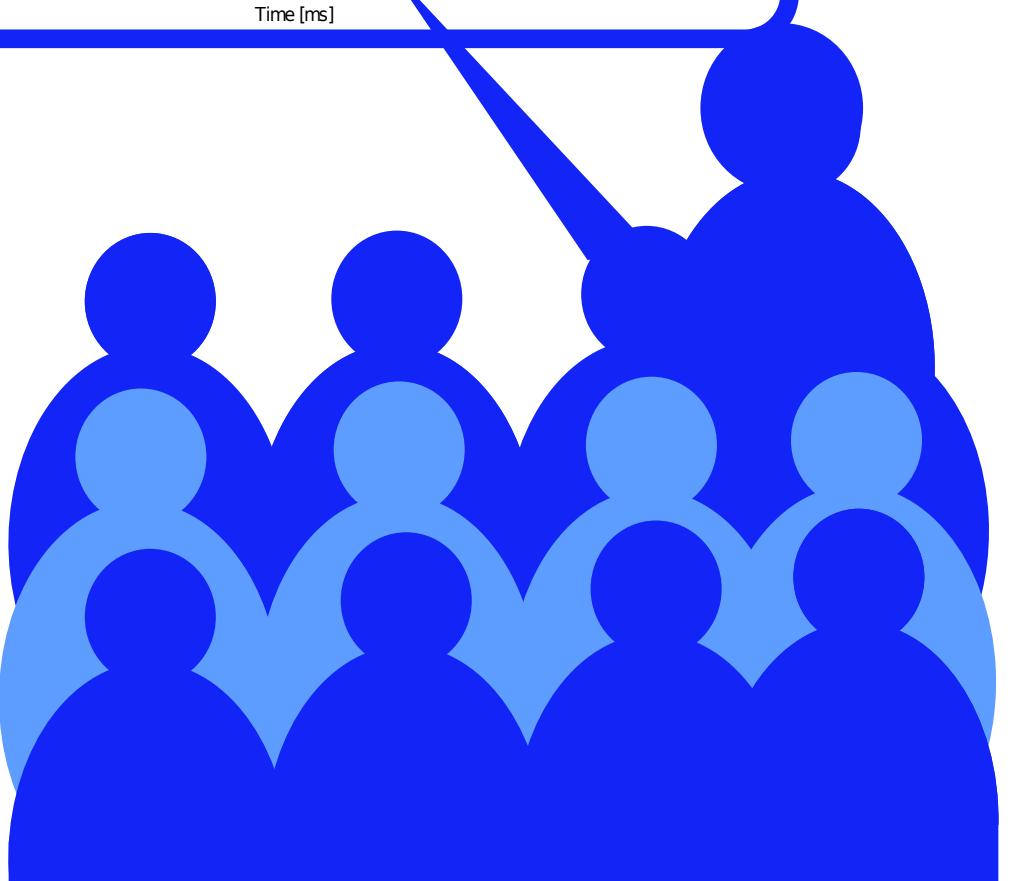
Use the WMP for Wireless lectures and labs



Stimulate student's ideas and provide them the right tool

Stop WiFi communication with your tailored jammer

In classes



Ideal for universities, MAC engineers, researchers

The WMP is a flexible and powerful tool that can be used in every wireless network.

- Make Voice over WLAN work very well
- Improve interference immunity with your tailored solution
- Localize WiFi devices

In the office

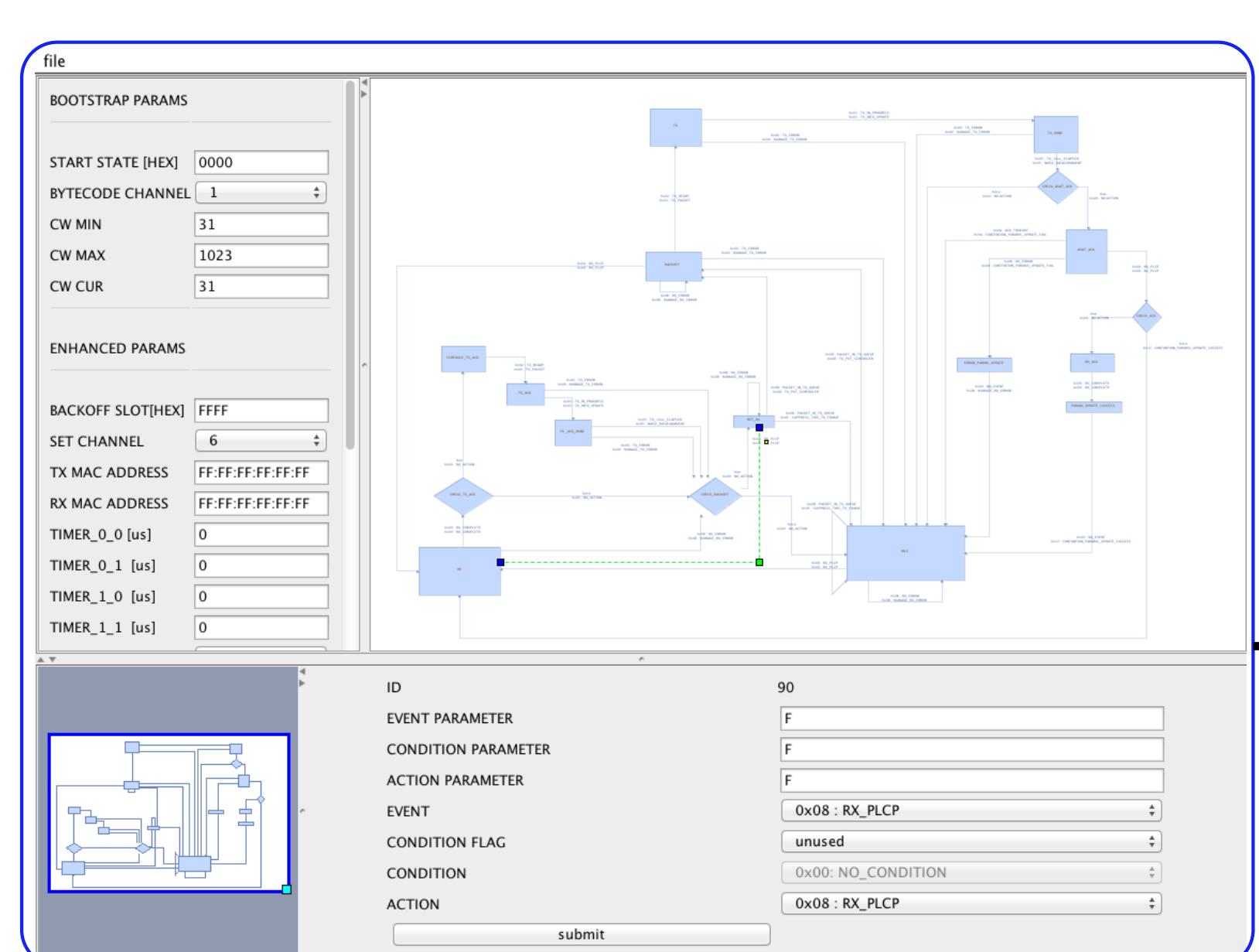


Product

The Wireless MAC processor development kit includes:

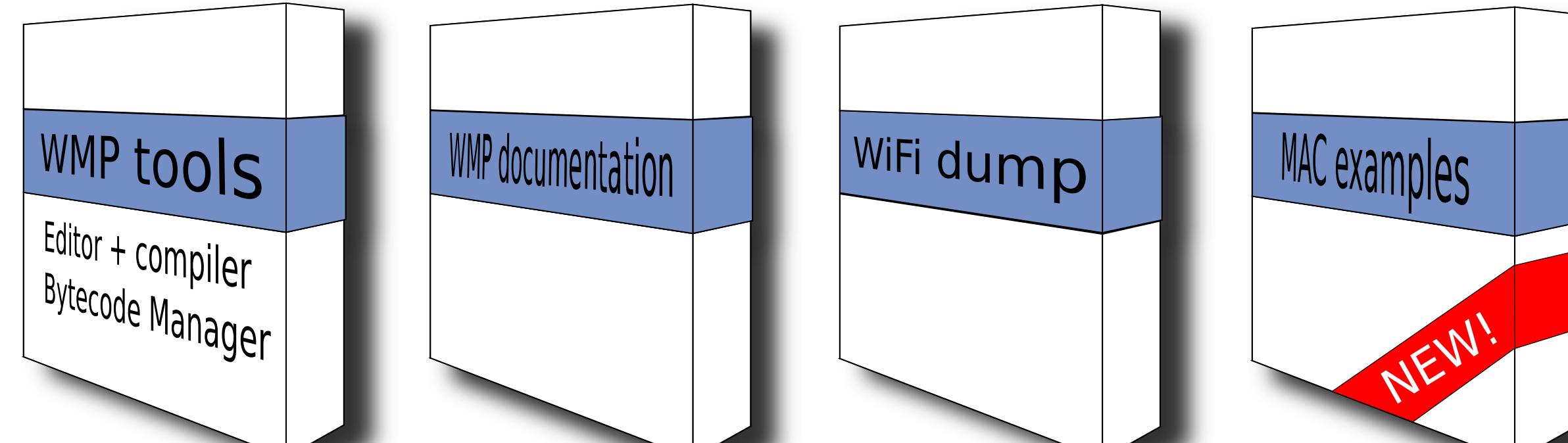
- * a complete platform with WMP-compatible hardware and preinstalled software;
- * a Virtual Machine with Linux Guest Operating System with preinstalled and ready to use:
 - WMP-Editor
 - WMP-Compiler

intuitive, easy-to-use GUI for quick design and prototyping



What do you need?

The WMP Development kit



All devices ship with the Bytecode Manager and the MAC engine pre-installed

NEW!

Open API for quick and easy development and deployment

Well documented platform and software

customized ready to-use platform

Do you want to know more? Read the code above!

Design your MAC and deploy it over multiple devices!

WMP-Editor + WMP-Compiler

Byte-Code-Manager

HW Platform + MAC-Engine

- loads MAC programs
- activates one MAC program
- schedules code switching
- manages local/remote WMP

