

# Live Update SIG

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# The big idea of live update SIG

Build consensus about the target of live patching.

Build very high level requirement.

Define implementation oriented functions/software structure of live patch which can be accepted by communities.

Also, implements test/simple implementation which can proof the concept.

## Target

User application live patching

Kernel live patching

## Schedule

Plan to release first version till end of 2005.

TBD

# User application live update

## What?

Realize on-line fix of user process

Inserting branch code to new symbols on the entry point of bug-included symbol.

## Current status

Montavista implementation

Realize all in user space.

Pannus(GPL)

Needs patch to kernel

## Next step

Define required functions.

Understand the current implementation.

Measurement the real-time-ness.

Design software structure.

Make simple/test implementation based on usable code.

# Kernel live update

What?

Realize on-line fix of kernel(vmlinuz)

Current status

kprobe(GPL)

Already mainlined, debug purpose framework.

Next step

Define required functions.

Understand the kprobe implementation.

Measurement real-time-ness.

Design software structure.

Make simple/test implementation based on usable code.