## Previously, on Linux Features WG

## Last meeting outcome:

- Top level goals:
  - the kernel should guarantee memory integrity along the different phases of the kernel thread life cycle.
- Derivate goals:
  - the kernel allocator mechanism should guarantee that when a new buffer is allocated the same is reserved for the driver/subsystem
  - Kernel needs to enforce variables scope/boundary



## The need to additional top level requirements

Goals	Requirements	Features
kernel memory address space integrity	The kernel should guarantee memory integrity along the different phases of the kernel thread life cycle.	kernel memory allocators
	The kernel must implement robust access controls to prevent global variable overflows from interfering with adjacent memory objects.	Debug: kmemcheck, KASan, (padding
	The kernel should prevent spurious write access from devices that can access directly to the memory.	colouring) IOMMU
	The kernel should guarantee the coherence of the memory seen by any processor.	synchronization primitives
Kernel provided userspace memory address space integrity	The kernel should guarantee a per process reserved memory that is exclusive, unless different dispositions.	mm, TLB
	The kernel should sufficiently isolate kernel space from user space memory.	MMU

