

17 SEPTEMBER 2022

Adaptable Linux Platform

openALT 2022 Edition (Community perspective)

Luboš Kocman

openSUSE Leap Release Manager

Happy Software Freedom Day!

Software Freedom Day (SFD) is an annual worldwide celebration of Free Software. SFD is a public education effort with the aim of increasing awareness of Free Software and its virtues, and encouraging its use.



WHOAMI(1)

Luboš Kocman

Release Manager for
openSUSE Leap and Leap Micro

Working remotely for Early
Enablement Team at SUSE

Driver of ALP Community WG



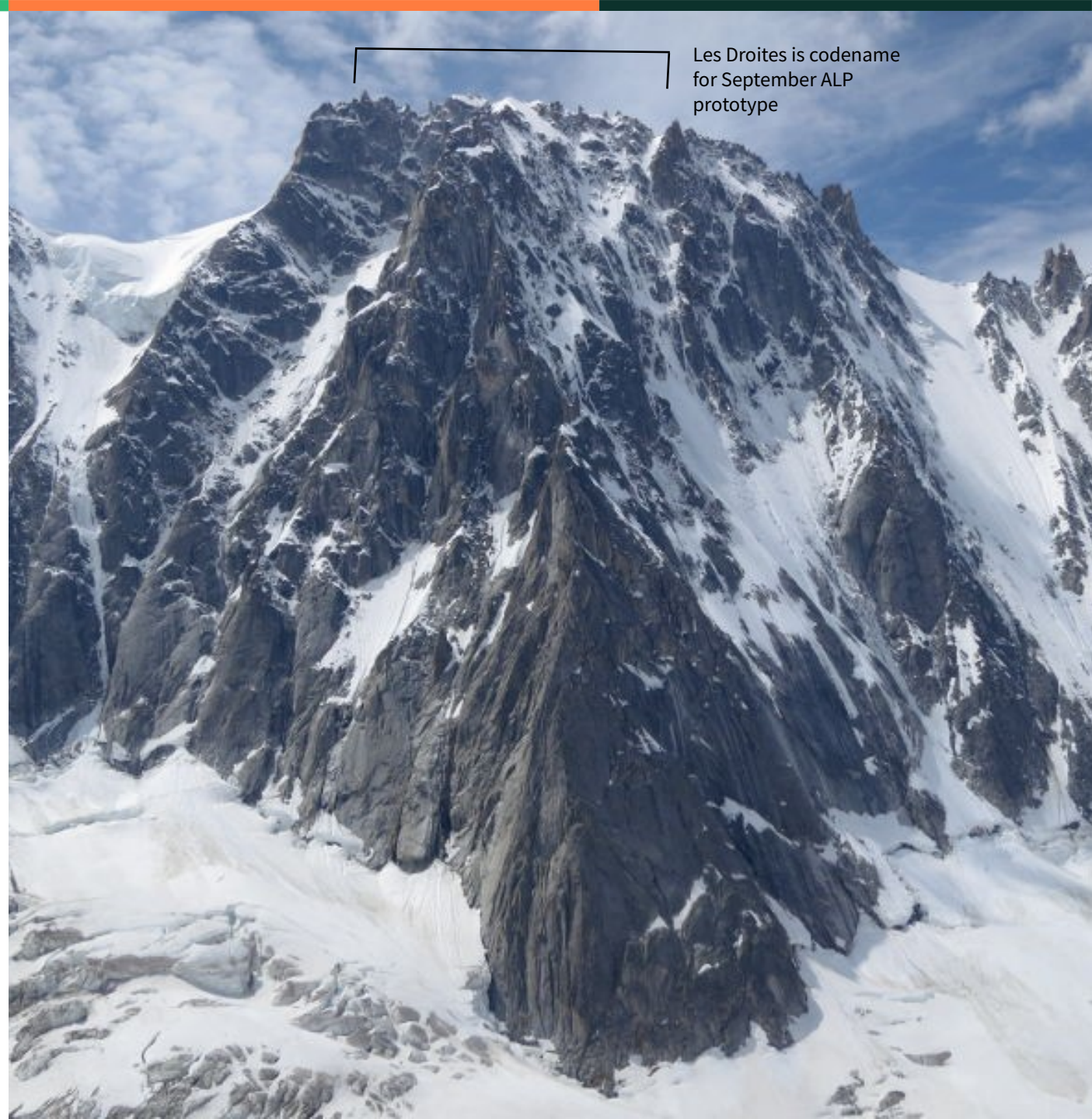
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What is ALP?

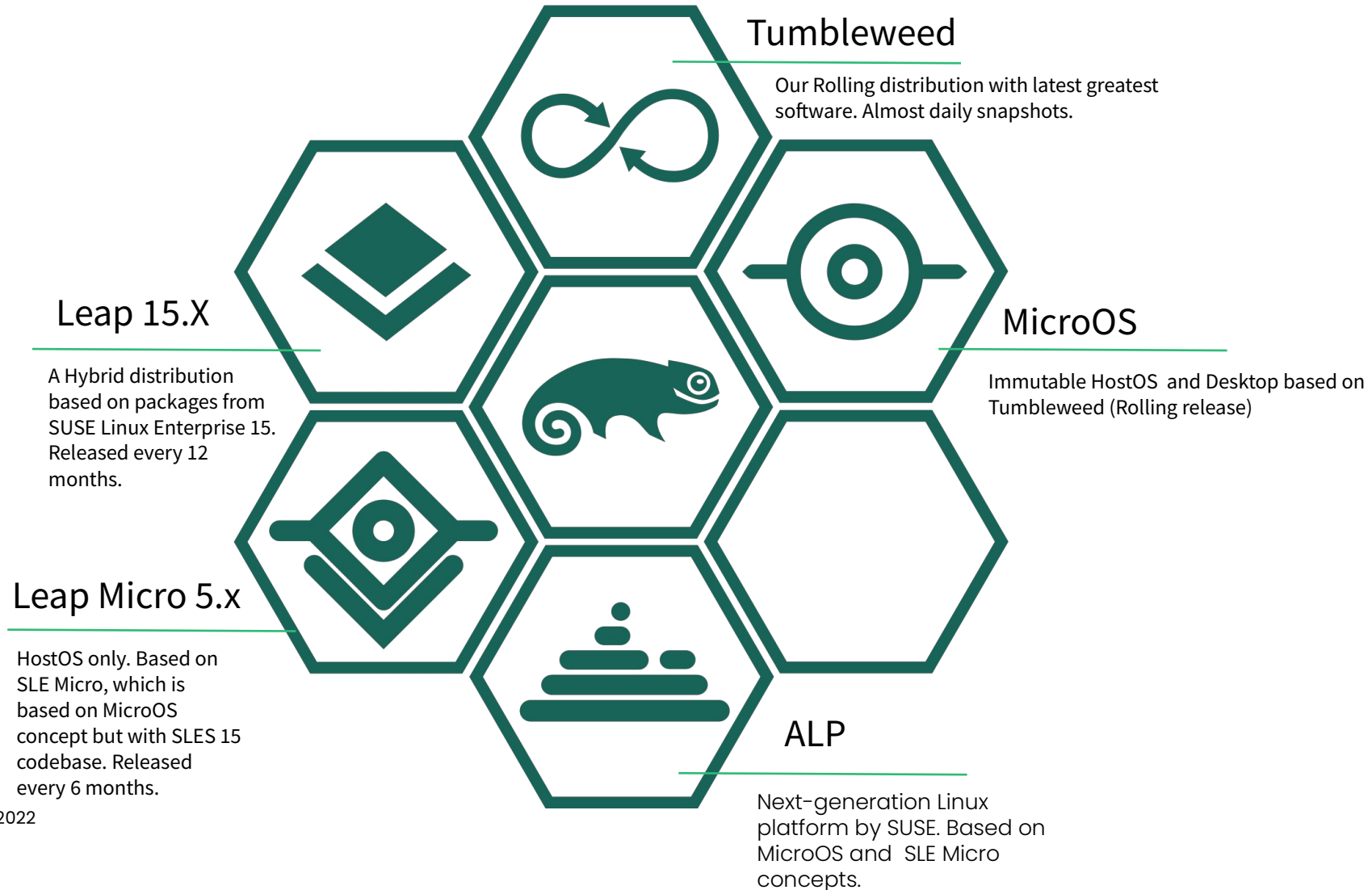
Adaptable Linux Platform (ALP) is a codename for the next-gen Linux platform by SUSE.

The idea is simple! Users should spend their time managing the application instead of managing the underlying Host.



Les Droites is codename for September ALP prototype

Overview of openSUSE distributions



Focus of the Adaptable Linux Platform

Application Centric

Easy deployment of any workload, be it a package, container, VM.

User worries only about the workload application; the system manages itself.

Zero Touch host with self-management, self-healing, as well as self-tuning. Full Disk Encryption (FDE) with TPM chip enablement by default on x86.

Decoupling lifecycles

Decoupling system components of the base OS by, e.g., containerization of individual [ALP Workloads](#) such as YaST, GDM/Desktop stack, language stacks, and others provide more flexibility for setting the lifecycle per bits and pieces.

This enables us to meet customer expectations for an Ultra-long lifecycle and provide the latest and greatest MariaDB, Node.js, or python.

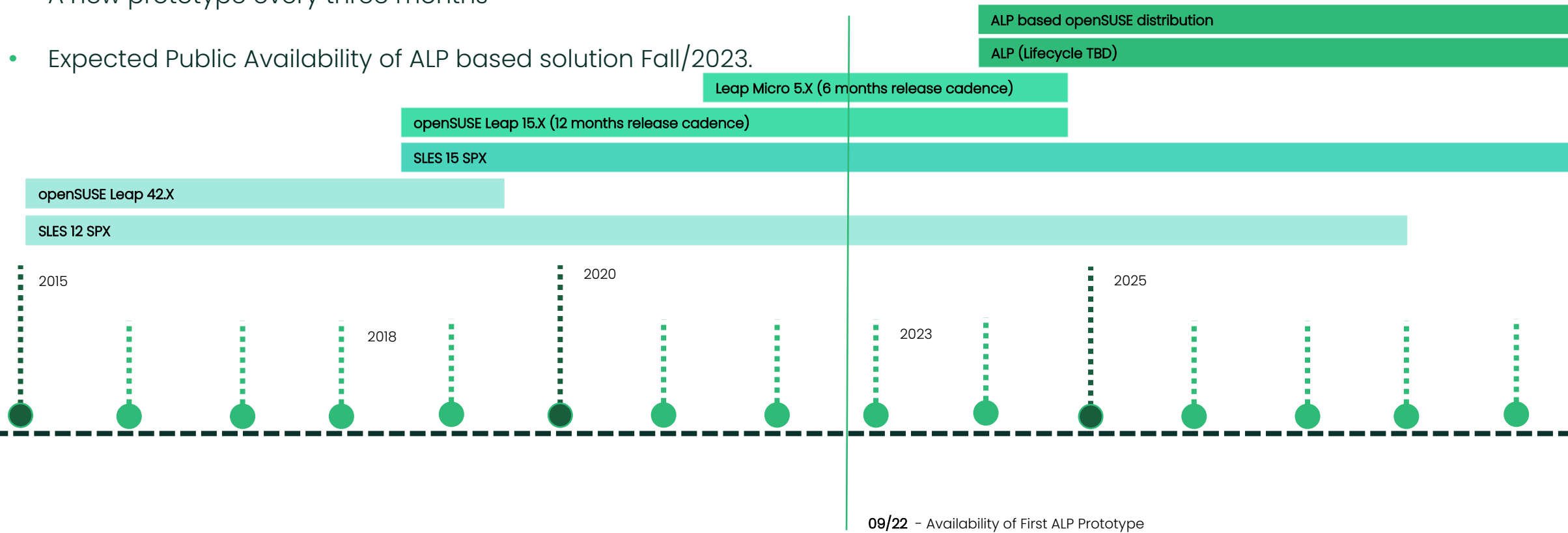
Built and tested in an open way

ALP is **planned**, built and tested in public. You can already have a look at [OpenBuildService](#) and [openQA](#) ALP projects. This simplifies cooperation with partners as well as the community and makes contributions straightforward and transparent.



High level Roadmap

- The first ALP prototype availability later this month (09/2022).
- A new prototype every three months
- Expected Public Availability of ALP based solution Fall/2023.



09/22 - Availability of First ALP Prototype



September prototype deliverables

Similar HostOS to SLE Micro but built from fresh codebase with initial container workloads

- Self-install (a bootable image that writes a pre-configured image to disk) x86_64 image with a firstboot experience and Ignition/Combustion support
- TPM (Trusted Platform Module) based FDE (Full Disk Encryption)
- Container and VM runtimes (podman, docker, k3s)
- Cockpit for web based management
- Containerized workloads YaST, gdm ([SUSE:ALP:Workloads](#))
 - See [yast-report-2022-7](#), [yast-report-2022-8](#), and [Cockpit_at_ALP](#)



What's next?

A fresh new ALP prototype every three months

- Containerized desktop utilizing flatpaks.
 - You can already get your hands on MicroOS Desktop, and experiment with our [GDM container](#)
- D-installer our next gen service based webtech installer
- Further ZeroTouch/self-management technologies
- Further containerized workloads
- Perhaps building flatpaks from rpms? (OBS can already build flatpaks)



Next-gen Linux desktop

[MicroOS Desktop](#), which is **Immutable OS** utilizing flatpaks currently serves as a prototype for an ALP-based Desktop solution.

We've already done [workshop](#) on this topic. Next workshop will be held at [oSAS 2022](#).

Full Desktop stack will not part of the September Prototype.



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Forming openSUSE ALP community

Join our Community [Workgroup](#) and help us define the next-gen distribution bridging Community and the Enterprise.

Meeting every Tuesday at 14:30 UTC at <https://meet.opensuse.org/meeting>

Most of our updates can be found at <https://news.opensuse.org/tag/alp>



The mission for community

The challenges ahead

- Seamless migration from community supported to a SUSE paid support-based solution.
- Transition of Leap 15.X to ALP-based openSUSE distribution
- Figure out support of older community x86_64 hardware older than Haswell after Leap 15.5 (ALP is going to support x86_64-v3+ aside from other non-x86 architectures).
- (Re-)Define lifecycle. We have quite a flexibility at setting lifecycle as all bits are available in OBS
- Revisit our openSUSE branding as well infrastructure UI/UX to better accommodate ALP. See [openSUSE/branding](https://openSUSE.org/branding)



Summary

Let's recap all that we were talking about

- This of ALP solution family as a new parallel offering rather than successor of SLES 15 product portfolio.
- APP/Workload focused self-managing Host OS.
- Decoupling Lifecycle of system workloads/components to allow users to define their own pace of updates.
- The very first prototype later this month
- General Availability of ALP based solution in Fall 2023
- Build and tested in open. Images can be downloaded from public [OBS](https://build.opensuse.org) (build.opensuse.org)
- Join Tuesday's ALP Community Workgroup meetings.



Thank you

For more information, contact SUSE at:

+1 800 796 3700 (U.S./Canada)

Frankenstrasse 146

90461 Nürnberg

www.suse.com

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