

Mono Accessibility & UI Automation

Linux Accessibility Efforts at Novell.

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Agenda

- The Linux Accessibility infrastructure
- UI Automation (UIA)
- References

The Linux Accessibility Infrastructure

Infrastructure

Client



Provider

Infrastructure

Client

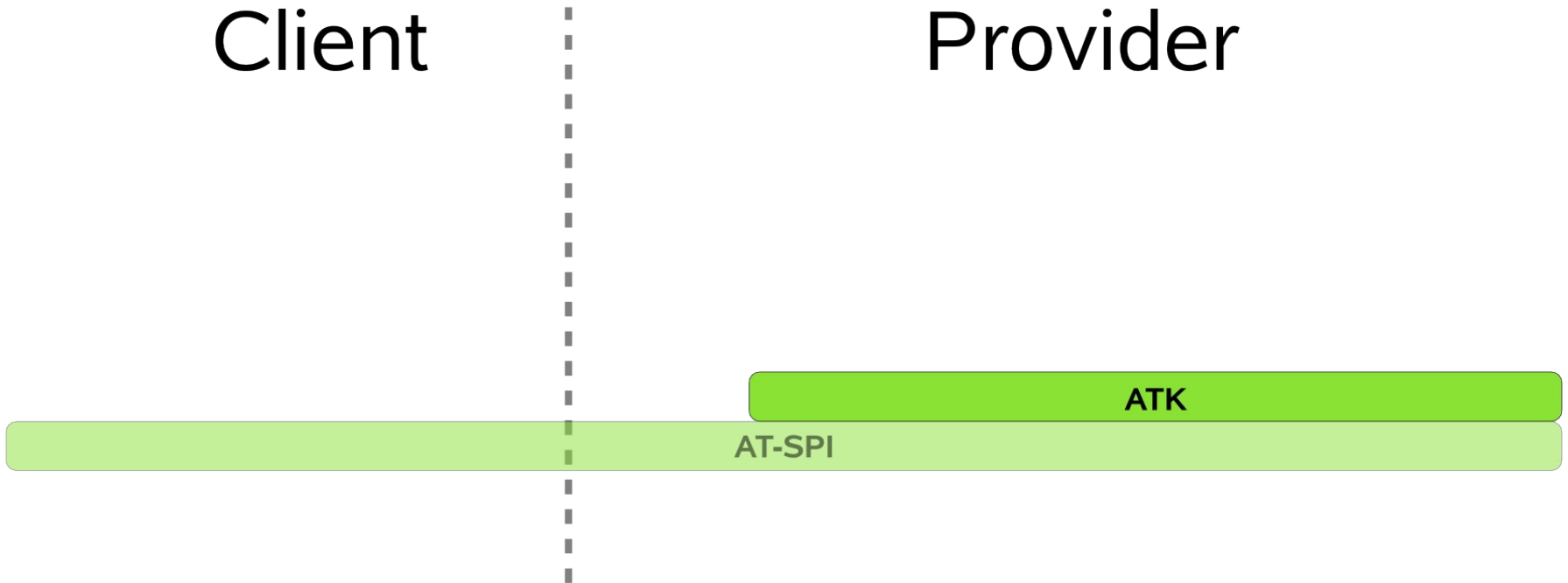
Provider

AT-SPI

Infrastructure

Client

Provider



Infrastructure

Client

Provider



GNOME
Applications

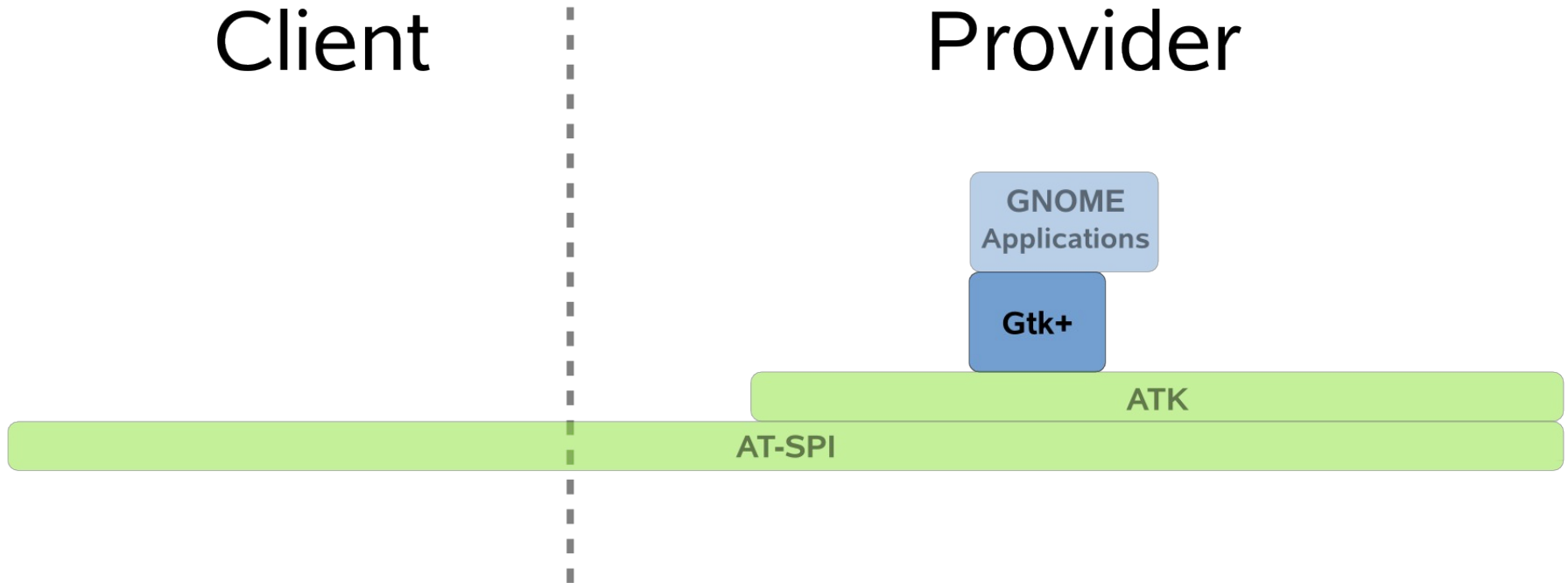
ATK

AT-SPI

Infrastructure

Client

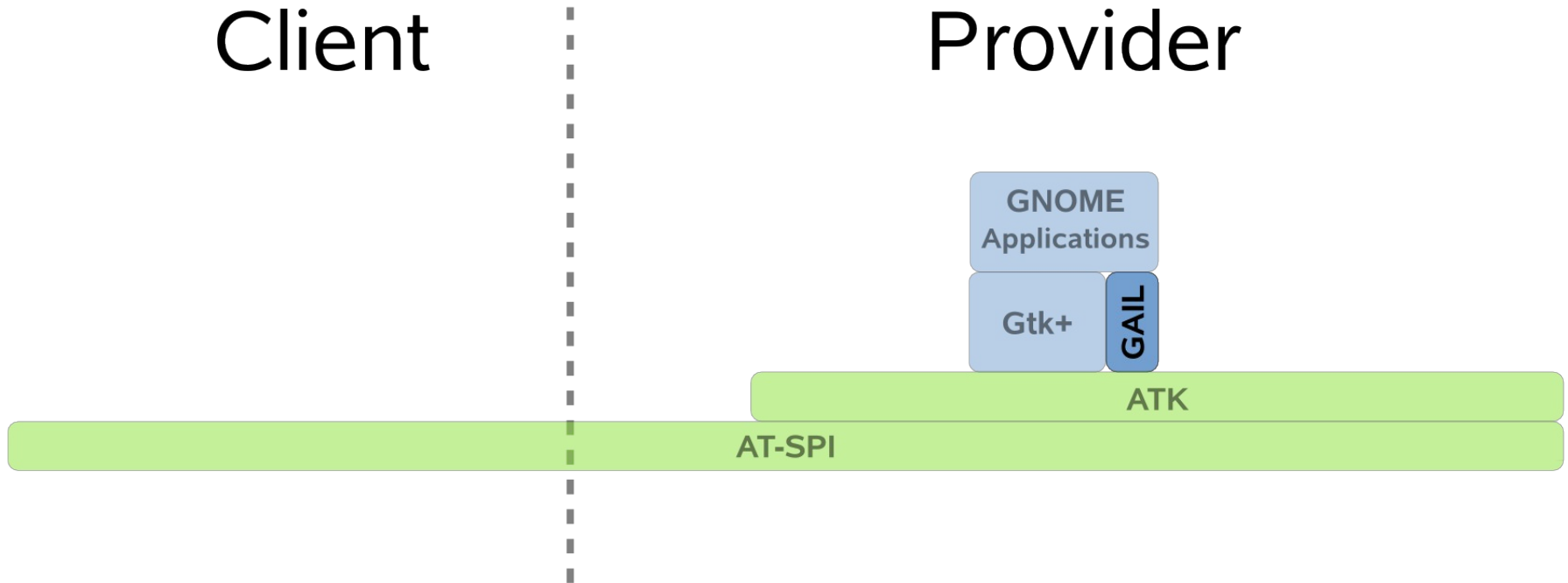
Provider



Infrastructure

Client

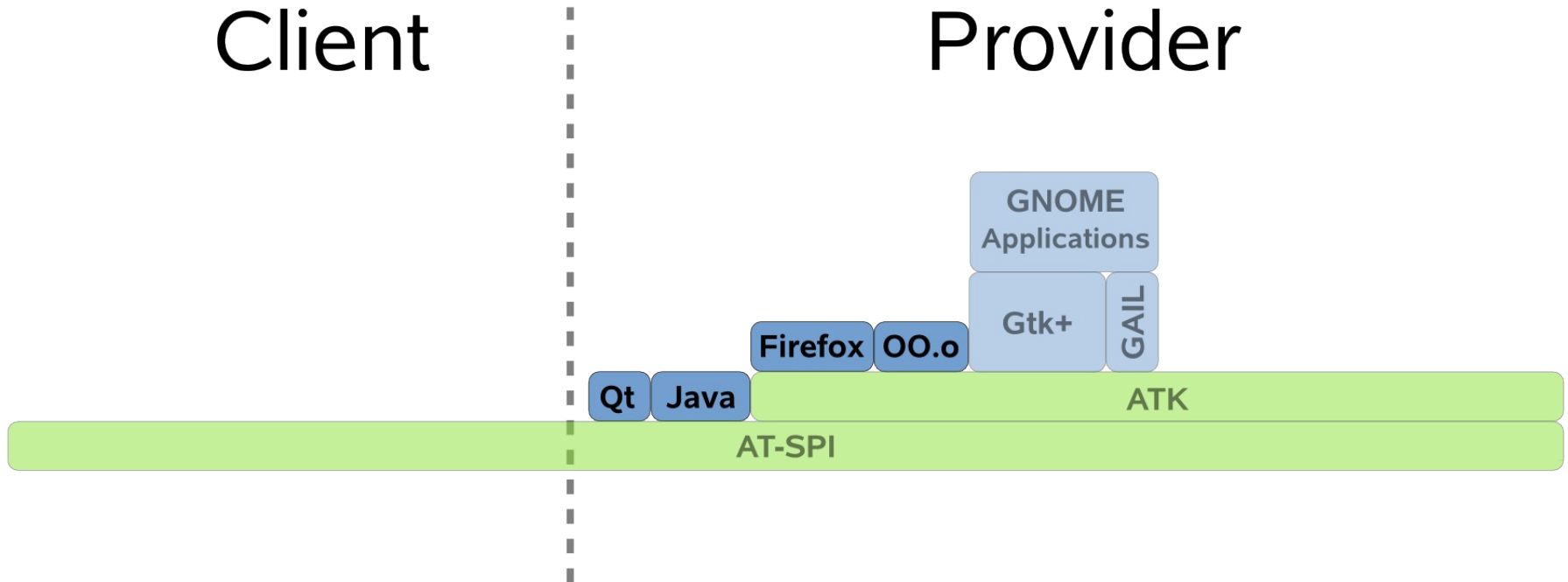
Provider



Infrastructure

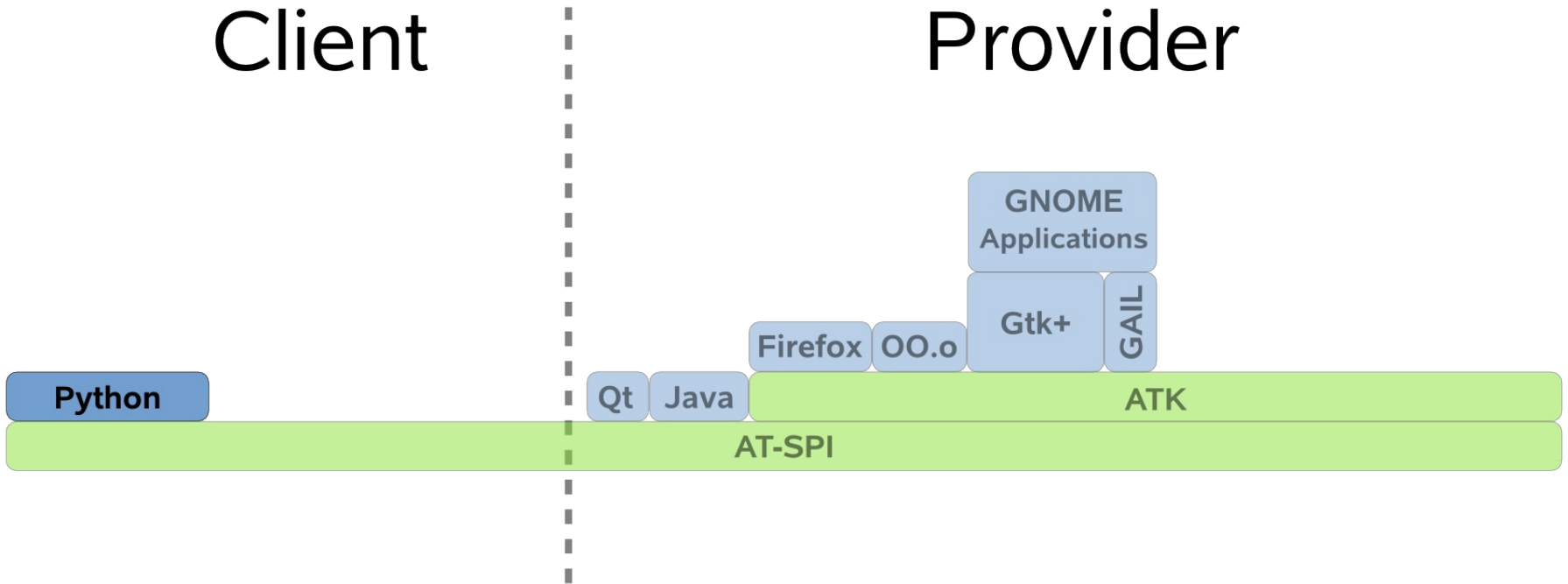
Client

Provider

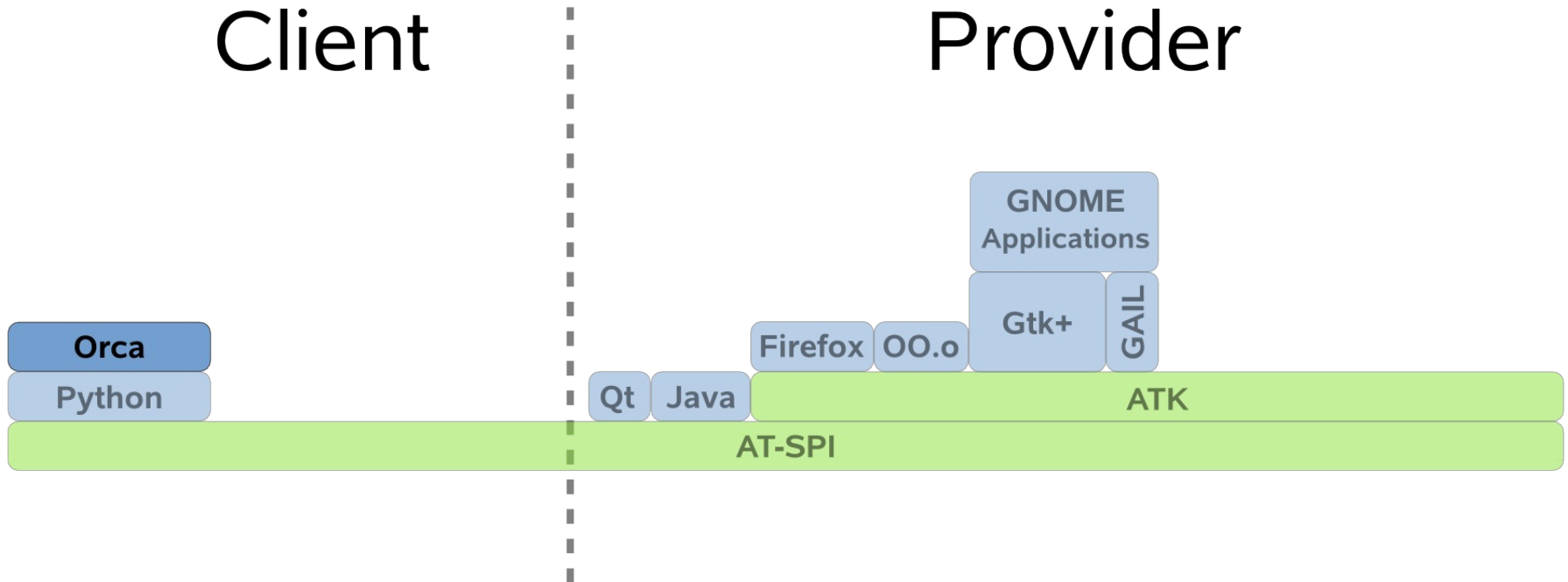


Client

Provider



Infrastructure



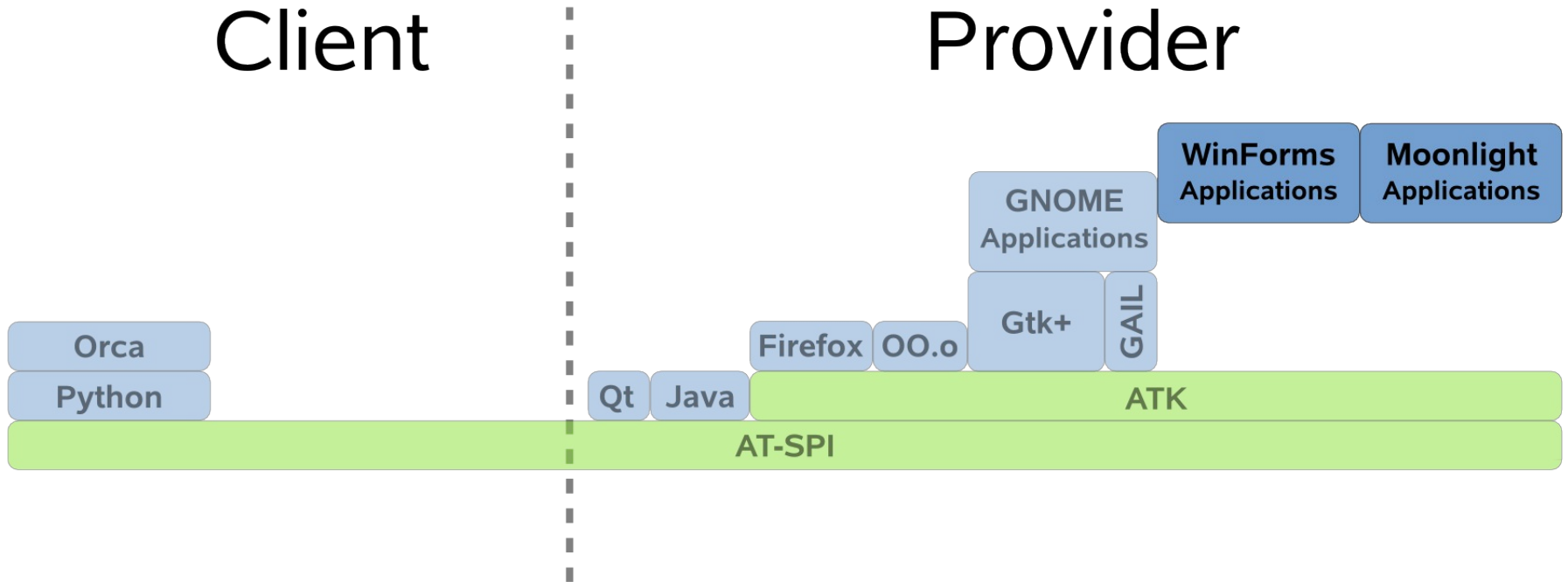
Infrastructure

What's missing from
this picture?

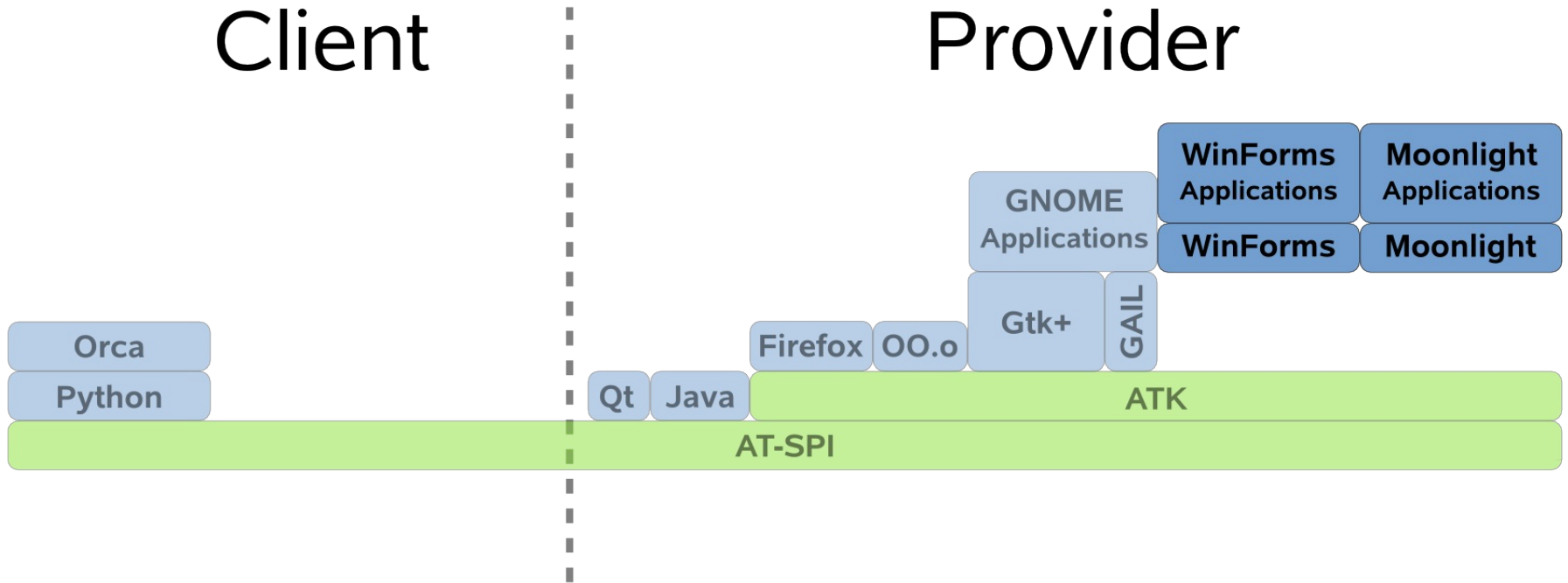
Infrastructure

- Winforms
- Moonlight

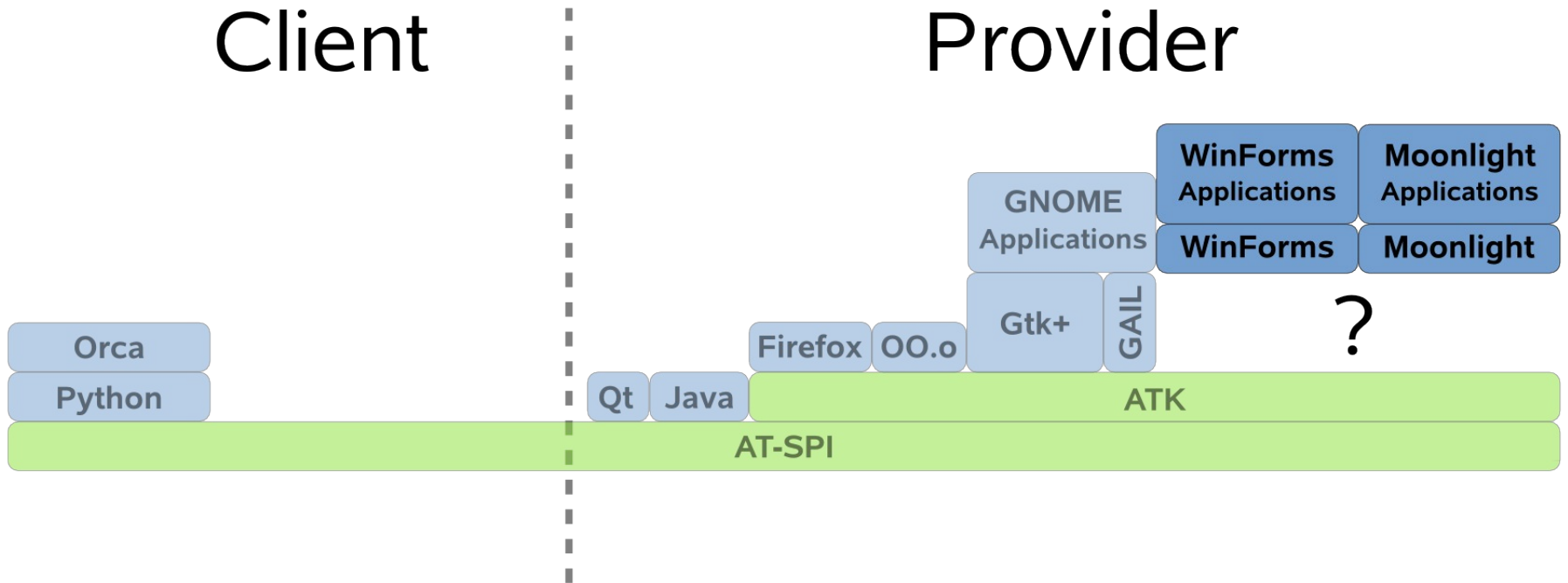
Infrastructure



Infrastructure



Infrastructure



Infrastructure

- We're Fixing That

UI Automation (UIA)

UI Automation (UIA)

- Microsoft Spec
- Managed by Accessibility Interoperability Alliance
- Replaces MSAA on Windows
- Better APIs (for AIs to use)
- Easier interfaces (for apps to implement)

UI Automation (UIA)

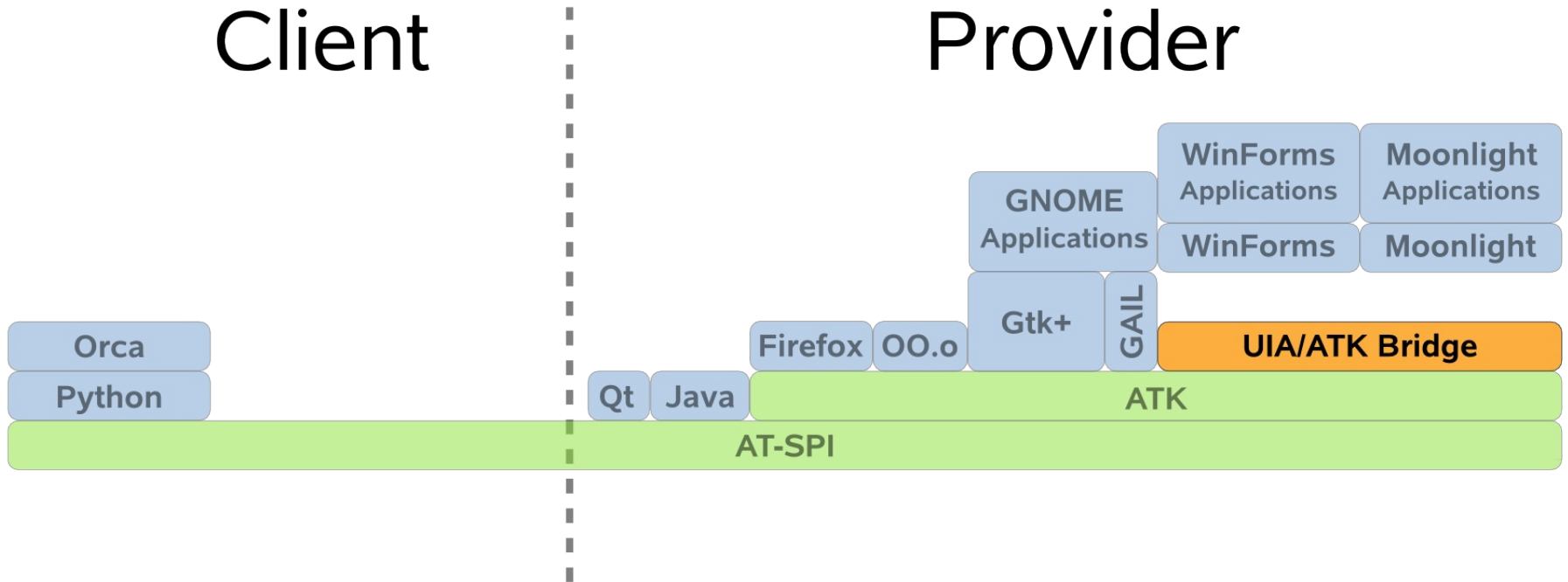
What do we care?

- We want accessible winforms apps
 - It matters to potential customers on windows
 - enable ally by implementing UIA interfaces
 - UIA Provider <-> ATK Bridge
- We want ATs (Screen Reads, Testing Tools, Automation Tools)
 - When UIA takes off, we want those ATs on Linux!
 - UIA Client <-> AT-SPI Bridge

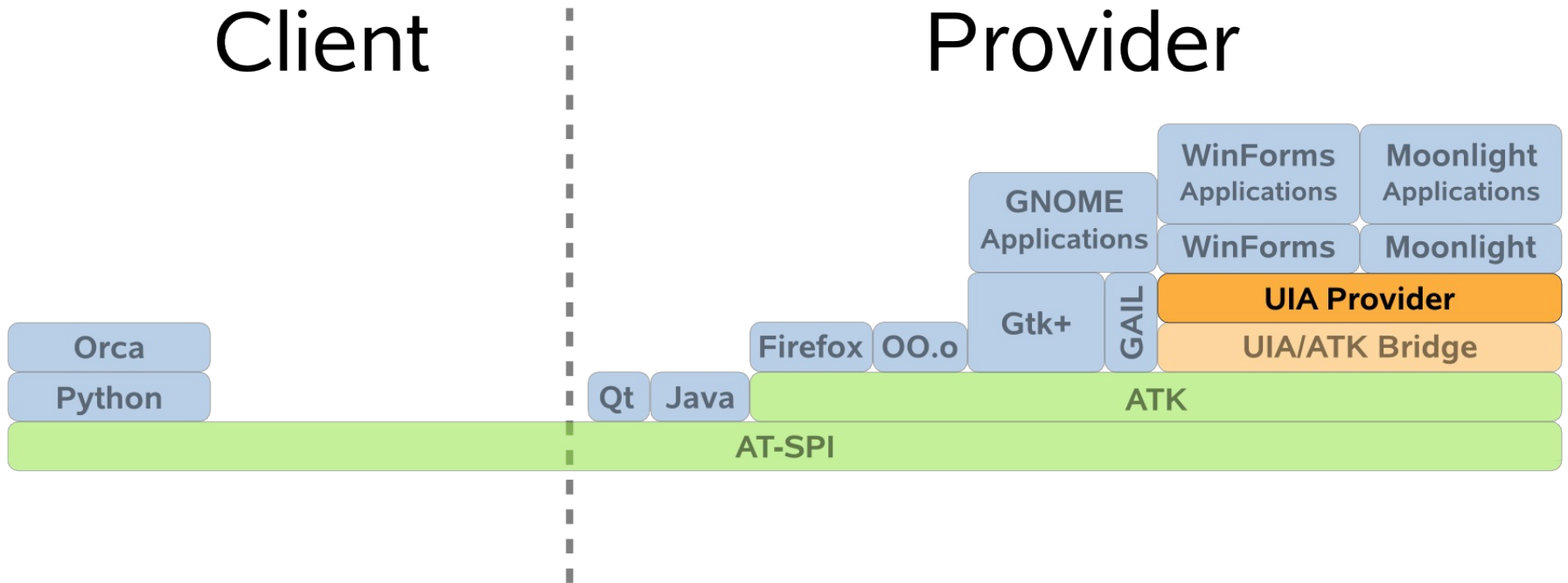
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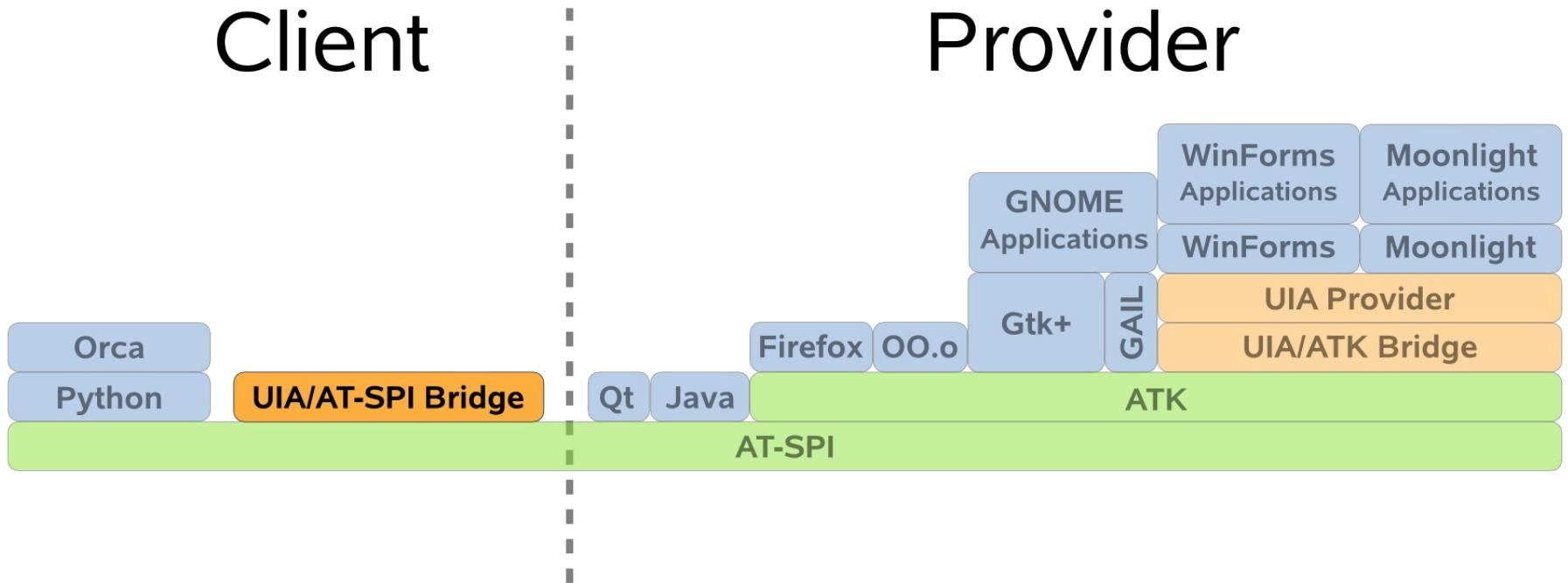
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Infrastructure



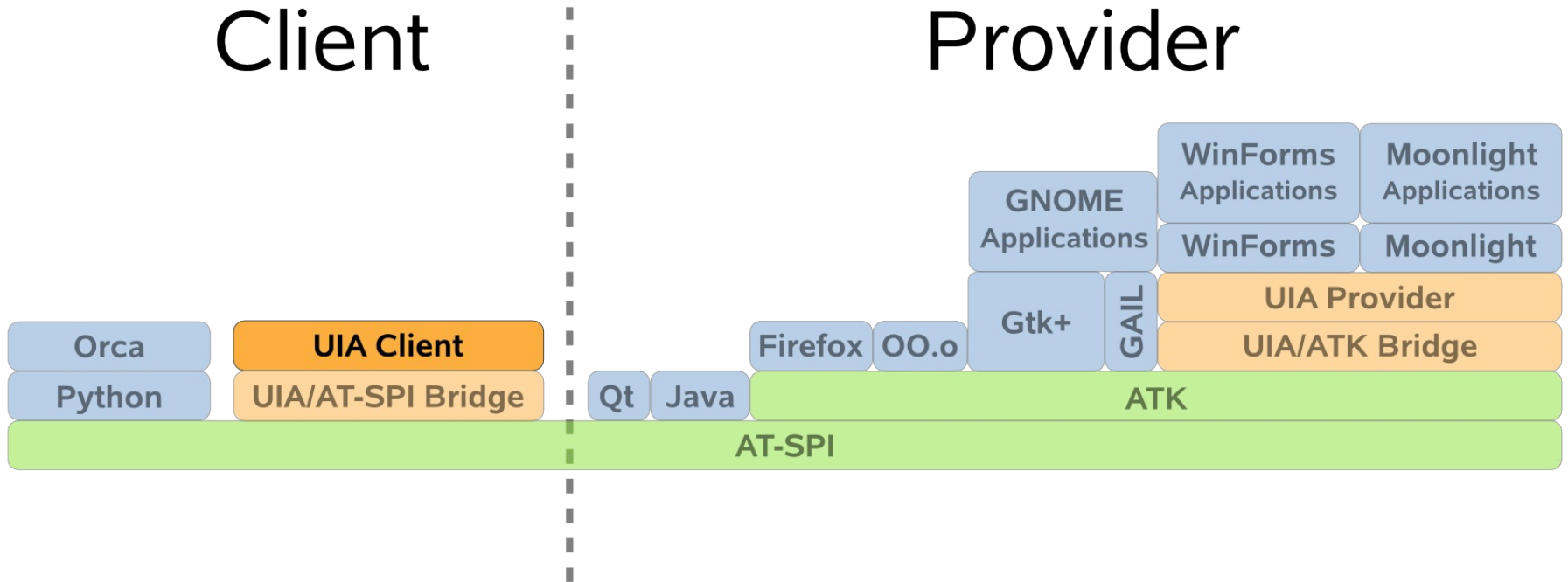
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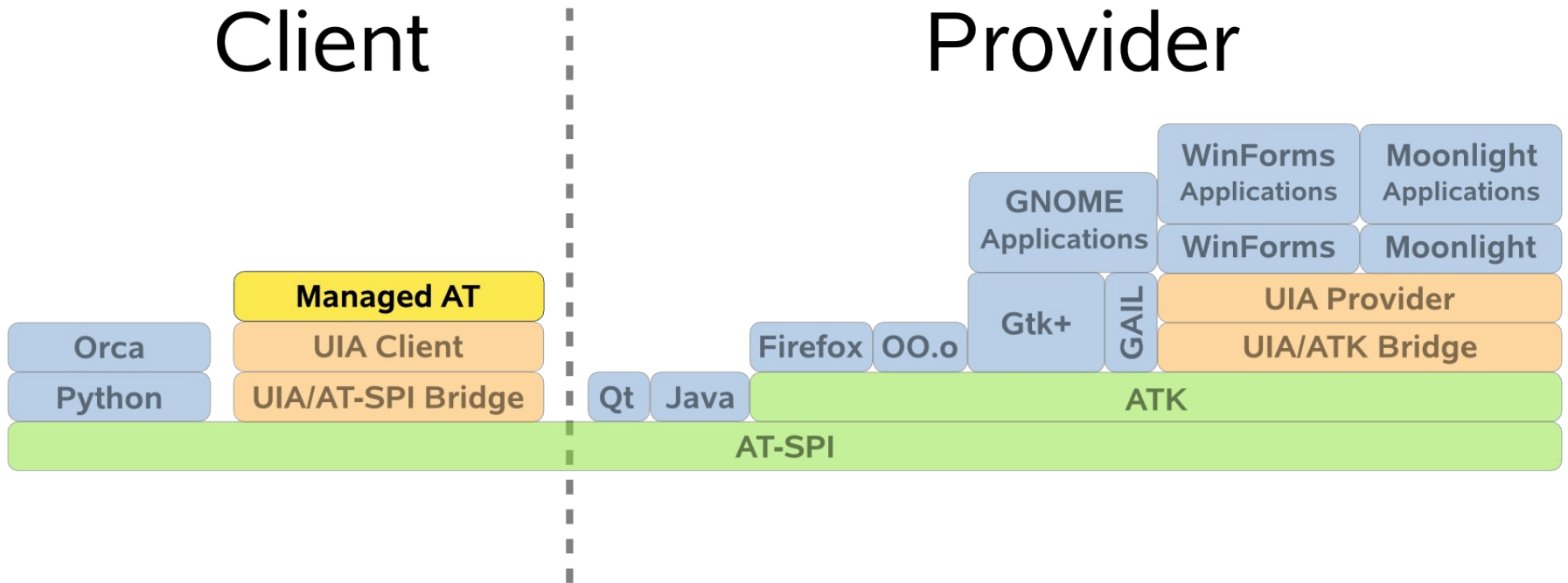
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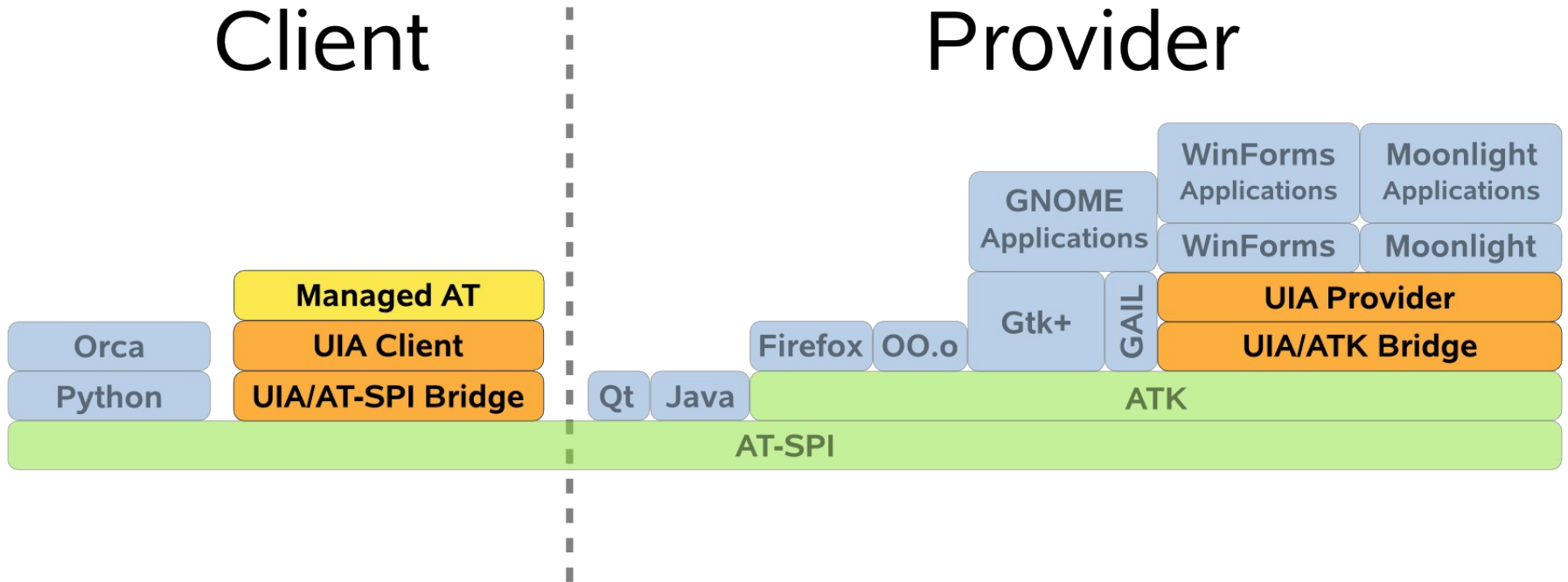
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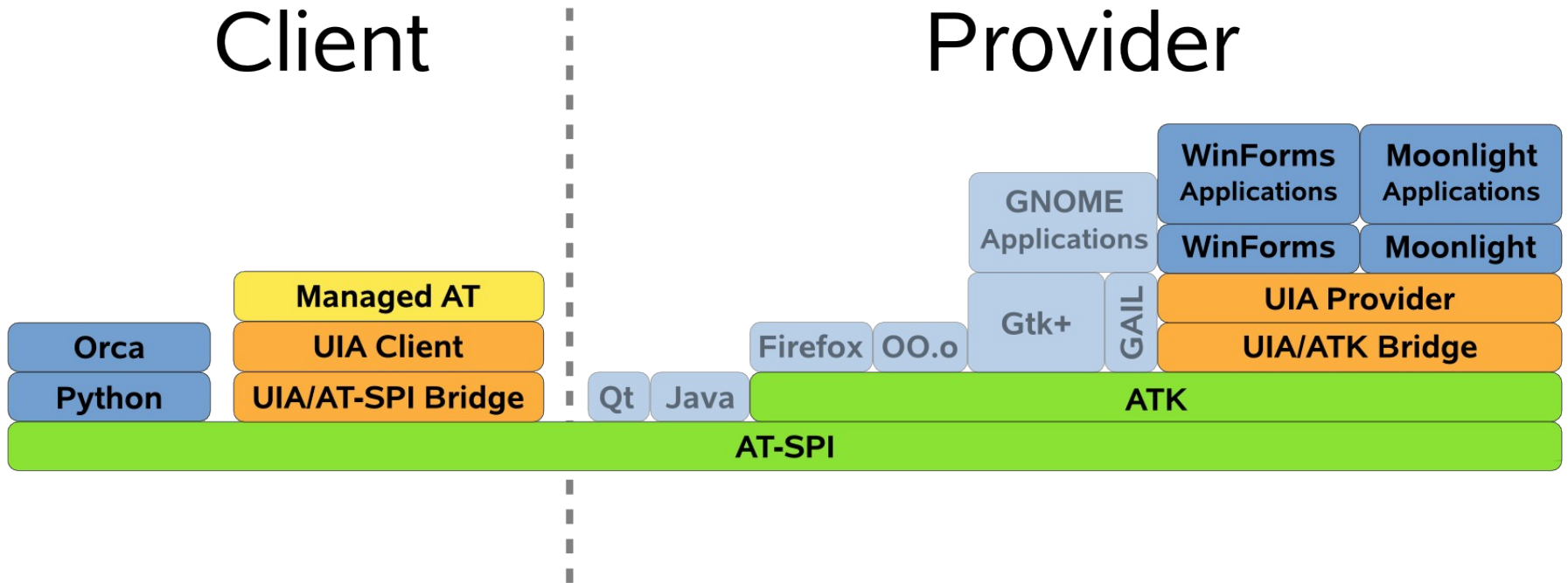
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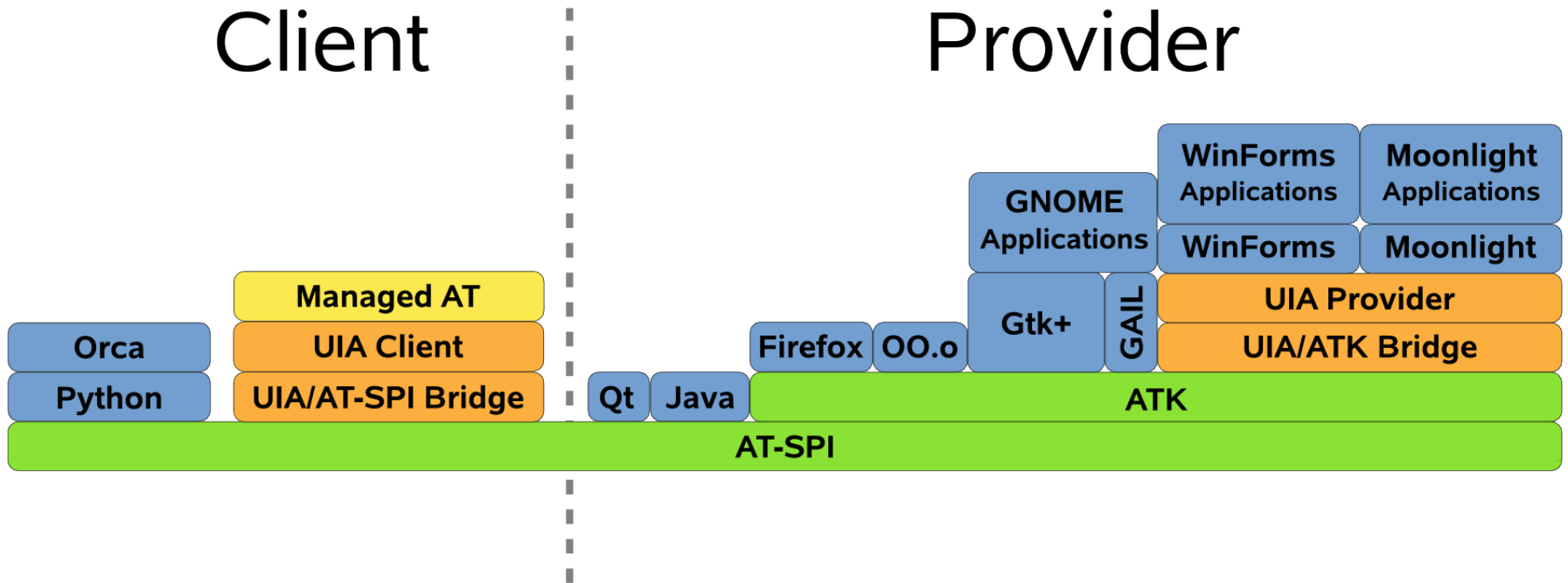
Infrastructure



Infrastructure



Infrastructure



References

- Python Powered Accessibility
 - <http://live.gnome.org/Accessibility/PythonPoweredAccessibility>
- Wikipedia
 - http://en.wikipedia.org/wiki/Computer_accessibility
 - <http://www.mono-project.com/Accessibility>
- Mailing List
 - mono-ally@forge.novell.com
- IRC
 - #mono-ally on irc.gimp.org

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