## Tails - Feature #12213
### Wayland in Tails 5.0 (Bullseye)

02/06/2017 12:39 PM - intrigeri

<table>
<thead>
<tr>
<th>Status:</th>
<th>In Progress</th>
<th>Start date:</th>
<th>09/02/2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
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<td>Due date:</td>
<td></td>
</tr>
<tr>
<td>Assignee:</td>
<td>bertagaz</td>
<td>% Done:</td>
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<td>Category:</td>
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<td>Spent time:</td>
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</tr>
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<tr>
<td>Type of work:</td>
<td>Code</td>
<td>Affected tool:</td>
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### Description

Run the GNOME session on Wayland instead of X.Org, and adjust whatever is needed such as:

- Our test suite uses xdotool, that only partly works on Wayland: xdotool set_desktop N still works, but xdotool key Super doesn't, and xdotool search --name only works for apps that are not Wayland native.
- We run quite a few of GUI apps under gksudo/pxexec/sudo, such as the Unsafe Browser. This can be worked around for apps that run via XWayland (i.e. not Wayland-native apps) with hacks like xhost +si:localuser:root, which might be acceptable as a temporary transition measure, as long as there's a clear plan to fix that at some point (since it defeats some of the benefits of switching to Wayland in the first place, such as security improvement, a11y / IBus / on-screen keyboard support in all graphical apps)
- Consider dropping the 89cc641f39a5414e763112698739bb2351da7d8 hack: there are rumors that GDM's session does not linger after login on Wayland.

### Resources:

- Debian bugs tagged wayland

Team: intrigeri (Perl code), bertagaz? (the rest). The FT wants to take over and do it in 2020 if not done yet by the end of 2019.

### Subtasks:

- **Feature # 14585: Investigate Dogtail's long-term viability** Resolved
- **Feature # 14717: Adjust doc writing guidelines wrt. screenshots for Wayland** Rejected
- **Feature # 14718: Make Tails Upgrader compatible with Wayland** Confirmed
- **Feature # 14760: Adjust doc for Wayland: starting graphical applications as root** Confirmed
- **Feature # 15142: Make tails-persistence-setup compatible with Wayland** Confirmed
- **Feature # 15828: Ensure users can enable GNOME Shell extensions on Wayland** Rejected

### Related issues:

- Related to Tails - Feature #14522: Make Tails usable for blind users Confirmed 07/06/2014
- Related to Tails - Bug #14623: Tor Browser sandbox breakout via X11 testing e... Confirmed 09/12/2017
- Related to Tails - Bug #10339: Are the security risks introduced by Vidalia-I... Rejected 10/06/2015
- Related to Tails - Bug #14675: GNOME on-screen keyboard is broken without the... Resolved 09/16/2017
- Related to Tails - Bug #14712: Display backlight brightness regressions in 3... Resolved 09/24/2017
- Related to Tails - Bug #15725: Are recent Firefox sandboxing improvements wor... Confirmed 07/10/2018
- Related to Tails - Bug #16305: GDM's GNOME Shell floods the Journal with XFIX... Resolved 01/06/2019
- Related to Tails - Bug #7502: Unsafe Browser is not accessible Confirmed 07/06/2014
- Related to Tails - Bug #9051: Tor Launcher is not accessible Confirmed 03/14/2015
- Related to Tails - Bug #11579: Research what to do wrt. D-Bus activatable app... Confirmed 07/19/2016
- Related to Tails - Bug #15635: The Unsafe Browser allows to retrieve the publ... Confirmed 06/04/2018
- Related to Tails - Bug #16795: No audio in Unsafe Browser breaks accessible C... Confirmed
- Related to Tails - Feature #5785: Detect captive portals Confirmed 09/26/2014
- Related to Tails - Bug #11755: Dogtail does not work for X applications runni... In Progress 08/31/2016
- Blocked by Tails - Bug #8309: Remove the topono GNOME Shell extension Confirmed 11/20/2014
Use X.Org in amnesia’s GNOME session (refs: #12213).

Since a few months gdm3 defaults to Wayland in Debian testing/sid, just like upstream. But we're not ready yet.

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# History

**#1** - 02/06/2017 12:39 PM - intrigeri
- Description updated

**#2** - 08/28/2017 09:01 PM - BitingBird
- Description updated

**#3** - 08/28/2017 09:02 PM - BitingBird
- Target version changed from Tails_4.0 to 2019

**#4** - 09/02/2017 08:24 AM - intrigeri
- Related to Feature #14522: Make Tails usable for blind users added

**#5** - 09/02/2017 08:25 AM - intrigeri
The set of problems we need to solve for Wayland overlap greatly with the set of problems #14522 needs solving too.

**#6** - 09/14/2017 06:27 AM - intrigeri
- Description updated

**#7** - 09/14/2017 06:28 AM - intrigeri
- Description updated

**#8** - 09/18/2017 08:15 AM - intrigeri
- Related to Bug #14623: Tor Browser sandbox breakout via X11 testing extensions added

**#9** - 09/18/2017 08:16 AM - intrigeri
- Related to Bug #10339: Are the security risks introduced by Vidalia-like tools worth it? added

**#10** - 09/18/2017 08:25 AM - intrigeri
- Related to Bug #14675: GNOME on-screen keyboard is broken without the X11 XTEST extensions added

**#11** - 09/24/2017 08:22 AM - intrigeri
- Related to Bug #14712: Display backlight brightness regressions in 3.2~rc1 added

**#12** - 09/25/2017 04:00 AM - intrigeri
- Assignee set to bertagaz

(as per roadmap)

**#13** - 10/05/2017 01:50 PM - intrigeri
- Status changed from Confirmed to In Progress
As per discussions at the summit 2018, the Foundations Team is happy to take this over or help make this happen. Let's check progress, plans and ETA mid-2019 after the Tails 4.0 release.

Oops, I misread our notes. Let's do this instead: FT wants to take over and do it in 2020 if not done yet by the end of 2019.
#28 - 03/08/2019 03:58 PM - intrigeri
- Related to Bug #7502: Unsafe Browser is not accessible added

#29 - 03/08/2019 04:55 PM - intrigeri
- Blocks deleted (Bug #9051: Tor Launcher is not accessible)

#30 - 03/08/2019 04:55 PM - intrigeri
- Related to Bug #9051: Tor Launcher is not accessible added

#31 - 04/07/2019 09:04 AM - intrigeri
- Related to Bug #11579: Research what to do wrt. D-Bus activatable apps and AppArmor added

#32 - 06/08/2019 04:47 PM - intrigeri
- Related to Bug #15635: The Unsafe Browser allows to retrieve the public IP address by a compromised amnesia user with no user interaction added

#33 - 06/11/2019 07:57 AM - intrigeri
- Related to Bug #16795: No audio in Unsafe Browser breaks accessible CAPTCHAs added

#34 - 08/07/2019 11:17 AM - intrigeri
- Description updated

#35 - 08/07/2019 11:19 AM - sajolida
- Related to Feature #5785: Detect captive portals added

#36 - 08/13/2019 07:11 AM - intrigeri
- Related to Bug #11755: Dogtail does not work for X applications running as non-amnesia users added

#37 - 08/22/2019 05:56 AM - intrigeri
- Description updated