NFC state of the union

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What's new?

- Extended hardware support
  - Inside Secure microread
  - NFC digital layer – Soft MAC NFC
    - Sony Port100
  - STMicroelectronics NFC21A
  - NCI – bcm2079x (WIP)
  - NFCsim – p2p emulation
What's new?

- Secure element and card emulation
  - First NFC transaction
- Wi-Fi Handover
- PHDC support
- NFC raw socket
  - LLCP, SNEP and Handover sniffer
- GENIVI compliance
# Summary

<table>
<thead>
<tr>
<th></th>
<th>Supported Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Linux</strong></td>
<td>NXP pn544, NXP pn53x, TI nfcwilink</td>
</tr>
<tr>
<td></td>
<td>Inside Secure microread, STMicro NFC21A</td>
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<tr>
<td></td>
<td>Broadcom bcm2079x (WIP)</td>
</tr>
<tr>
<td><strong>Android</strong></td>
<td>NXP pn544, Broadcom bcm2079x</td>
</tr>
<tr>
<td><strong>Inside Secure</strong></td>
<td>Inside Secure microread</td>
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<tr>
<td><strong>libnfc</strong></td>
<td>NXP pn53x</td>
</tr>
<tr>
<td><strong>nfcpy</strong></td>
<td>NXP pn53x</td>
</tr>
</tbody>
</table>

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<tr>
<th>Library</th>
<th>Interfaces</th>
<th>Tag R/W</th>
<th>LLCP</th>
<th>Handover</th>
<th>Card Emulation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Linux</strong></td>
<td>HCI, NCI, USB</td>
<td>Yes</td>
<td>SNEP, NPP, PHDC</td>
<td>Bluetooth, WiFi</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Android</strong></td>
<td>HCI, NCI</td>
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</tr>
<tr>
<td><strong>libnfc</strong></td>
<td>USB, UART</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td><strong>nfcpy</strong></td>
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<td>SNEP</td>
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</table>
What's next?

- Complete NFC payment solution
- More NCI hardware support
  - NXP pn547, STMicro NFC21B
- Fedora packaging
- Certifications
Our users

- Tizen
- Debian, Ubuntu
- ??
Questions?

- NFC daemon
  http://git.kernel.org/?p=network/nfc/neard.git;a=summary
- NFC kernel
  http://git.kernel.org/pub/scm/linux/kernel/git/sameo/nfc-3.0.git
- Web site
  - https://www.01.org/linux-nfc
- Mailing list
  https://lists.01.org/mailman/listinfo/linux-nfc
- sameo@linux.intel.com