

Open Access Memo

Document Type	Memorandum
Version	3.5 rcs (\LaTeX 2\epsilon)
Date	February 2026
Author	Marc Gloor <marc.gloor@u.nus.edu>
Purpose	Outline open access protocols for decentralized, private, and efficient data management, emphasizing open-source and privacy-focused technologies. This data sheet serves as a foundational guide for open access initiatives. Updates may follow based on technological advancements.

1 Overview

This memo specifies recommended tools and protocols for secure, decentralized operations. All components prioritize open access, censorship resistance, and user sovereignty. Implementation is encouraged on Linux-based systems for optimal compatibility.

2 Recommendations

Category	Recommended Tools/Protocols	Description	Key Benefits
Operating System	Linux	Open-source kernel with distributions like Debian.	Customizable, secure, free from proprietary restrictions.
Privacy	Gpg	Encryption for emails/files (GPG).	End-to-end encryption
Networking	Tor	Enhanced w3 anonymity.	Anonymous networking.
Data Transfer	BitTorrent, IPFS, SSH	Peer-to-peer file sharing (BitTorrent), content addressable storage (IPFS) and secure remote access (SSH)	Decentralized distribution, fault-tolerant storage, secure communications.
Data Repository	Git (self-hosted)	Distributed version control system, hosted on personal servers or via IPFS.	Full control over data, no centralized platform dependency.
Finance	PulseChain, pDAI (Stablecoin)	Layer-1 blockchain (PulseChain) with stablecoin (pDAI) for transactions.	Low fees, decentralized finance, stability in value.
Decentralized Exchange	Liberty Swap on PulseChain	Privacy-focused, intent-driven, non-custodial cross-chain exchange.	Privacy, simplicity and security without exposing wallets or assets.

- **Compatibility:** All tools integrate seamlessly on Linux. Use Tor for overlaying privacy on transfers.
- **Best Practices:** Avoid centralized services; self-host Git repositories. Use pDAI for financial transactions in data ecosystems.
- **Security Considerations:** Regularly update GPG keys and SSH configurations. Combine with IPFS for immutable, private data storage.
- **Resources:** Refer to official documentation for each tool. For PulseChain, explore community forums for latest updates.

NOT GENERAL ADVICE / DO YOUR OWN RESEARCH

Please read the Disclaimer carefully before you start to use this document. By using the document or by clicking to accept or agree to the Terms of Use when this option is made available to you, you accept and agree to be bound and abide by the Disclaimer. If you do not want to agree to the Privacy Policy, you must not access or use the document. The information contained in this document is for academic and general information purposes only. The information is provided by the author & owner and while I endeavour to keep the information up to date and correct, I make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the document or the information, products, services, or related graphics contained on the document for any purpose. Any reliance you place on such information is therefore strictly at your own risk. In no event will I be liable for any loss or damage including without limitation, indirect or consequential loss or damage, or any loss or damage whatsoever arising from loss of data or profits arising out of, or in connection with, the use of this document. Through this document you are able to link to other documents which are not under the control of the owner of this document. I have no control over the nature, content and availability of those sites. The inclusion of any links does not necessarily imply a recommendation or endorse the views expressed within them. Every effort is made to keep this document up and running smoothly. However, the document owner takes no responsibility for, and will not be liable for, the document being temporarily unavailable due to technical issues beyond my control.

FOR EDUCATIONAL AND INFORMATIONAL PURPOSES ONLY

The information contained on this document and the resources available for download through this document are for educational and informational purposes only.

NOT LEGAL ADVICE

The information contained on this document and the resources available for download through this document is not intended as, and shall not be understood or construed as, legal advice. While I provide some supplemental and occasional trainings on legal topics taught by attorneys or legal professionals, the information contained on this document is not a substitute for legal advice from a licensed attorney who is aware of the facts and circumstances of your individual situation. I have done my best to ensure that the information provided on this document and the resources available for download are accurate and provide valuable information. Regardless of anything to the contrary, nothing available on or through this document should be understood as a recommendation that you should not consult with an attorney to address your particular information. The Company expressly recommends that you seek advice from an attorney prior to taking any actions. Neither the Company nor any of its attorneys shall be held liable or responsible for any errors or omissions on this document or for any damage you may suffer as a result of failing to seek competent legal advice from a licensed attorney who is familiar with your situation.

NOT FINANCIAL ADVICE

The information contained on this document and the resources available for download through this document is not intended as, and shall not be understood or construed as, financial advice. I am not an attorney, accountant or financial advisor, nor am I holding myself out to be, and the information contained on this document is not a substitute for financial advice from a professional who is aware of the facts and circumstances of your individual situation. I have done my best to ensure that the information provided on this document and the resources available for download are accurate and provide valuable information. Regardless of anything to the contrary, nothing available on or through this document should be understood as a recommendation that you should not consult with a financial professional to address your particular information. The Company expressly recommends that you seek advice from a professional. Neither the owner nor any of its associates shall be held liable or responsible for any errors or omissions on this document or for any damage you may suffer as a result of failing to seek competent financial advice from a professional who is familiar with your situation.