

Firearm Accountability Auditability Blockchain Solution (FAABS)

Blockchain is the miracle cure to the
gun-control vs. gun-rights problem

Vision

A solution to the firearm misuse problem that nobody could have ever imagined possible.

- A properly configured system of Blockchain smart contracts can mitigate firearms misuse far more effectively than any solution ever proposed or conceived *while simultaneously* protecting the rights of the pro-gun community
 - There are no trade-offs
- A first time ever, Win-Win solution
 - A solution that works for both sides can be accepted by the vast majority of moderates on the Left and the Right
- Based on the USA situation, but works globally

Neutralizing Firearms Misuse

- Full Auditability
 - *Far* more effective than universal background checks
 - Every single gun transfer is auditable
 - If a crime gun is confiscated, the perpetrator of the illegal transfer will be found with near 100% certainty
- Covers all difficult situations and loopholes
 - Straw purchases
 - Gun show and private citizen sales
 - Gifting or lending firearms
- Full Accountability
 - Full, real-time ability to deny transfers and access to mentally incompetent, convicted felons, those under restraining orders, etc.

Protecting Gun Rights

- No gun registry
- No gun bans
- No gun restrictions through bureaucracy
- No FBI background checks
- No government control of the Blockchain system
- No publicly available personal or gun information
- Nobody knows how many guns anybody owns
- Convenient universal gun transfers
 - Only takes seconds to a few minutes
 - Any time
 - Anywhere there is internet service
 - No 3rd party involvement in the transfer
 - Completely private – nobody knows who or what is involved: not the public, not the government, not any tech company
- Can be used in place of tax stamp for suppressors!!

Proper Balance of Police Involvement

- Better enables legitimate police duties
 - Police can execute real time, local gun ownership validation checks anywhere in seconds
 - Police can execute full firearms trace to the last legal owner with near 100% certainty
- Checks on abuse of police power
 - All gun spot check requests and firearm traces are logged on the Blockchain, thwarting abuse and phishing attempts
 - Police can't later lie to the court
 - Firearms traces require the willing participation of those who have owned the firearm so a court order should be necessary and traces can't be done in secret

Licensing Process

- 1) User downloads FAABS App to Smartphone
- 2) Uses App to create a FAABS License address
 - 1) Everyone using FAABS must have FAABS License (Police too)
- 3) Goes to gov't agency to share FAABS License address
 - Gov't agency may be DMV if no state firearms license is required
 - Gov't agency could be county clerk in state has formal firearms license process
- 4) Gov't agency issues FAABS License on Blockchain to User's FAABS License address
- 5) Encryption key to User's FAABS License stored on smartphone with hardcopy backup stored separately

Gov't maintains ID information off-Blockchain, which is linked to User's Blockchain License. Gov't controls License status but never knows how many guns the civilian owns.

Firearm Transfer Process

- 1) Buyer uses FAABS App to scan Blockchain address of Seller's Transfer Record from FAABS App on Seller's smartphone
- 2) Buyer sends Off-Blockchain encrypted message to Seller with Buyer's License address and digital signature
- 3) Seller uses FAABS App to pull encrypted info from FAABS, decrypts & validates Buyer's License for the gun in question
- 4) Seller approves the transfer on FAABS App, which submits new Transfer Record to Blockchain
- 5) Buyer receives encrypted ownership and firearm information through FAABS App, decrypts & validates information in FAABS App matches information stamped on gun
- 6) Buyer uses FAABS App to accept transfer & log on Blockchain

Entire process takes seconds, can be done anywhere there is Internet, the gov't is not involved, no background check and they don't even need to know each other's names

Police Gun Check Process

- 1) Officer spots civilian with a gun and initiates gun check
- 2) Civilian complies & Officer scans bar code address of Transfer Record pertaining to the firearm from the civilian's smartphone
- 3) Officer's FAABS App logs the gun check request on Blockchain, including Officer's FAABS License
- 4) Civilian gets a notice on FAABS App, verifies it is coming from Officer present and confirms gun check in FAABS App
- 5) Civilian's FAABS App logs compliance to Officer on Blockchain and grants access to the Transfer Record for the gun
- 6) Officer's FAABS App receives encrypted info, decrypts & validates ownership and License status of the Civilian

Process takes a few seconds to a minute or two. Officer never has any information on any other guns owned by the civilian, all transmitted information is end-to-end encrypted

Police Firearm Trace Process

- 1) Officer gets court order to Trace a crime scene firearm
- 2) Officer uses FAABS App to scan serial number and makes a request to the ATF to grant Transfer Record information
- 3) ATF uses FAABS App to unlock first Transfer Record to get FAABS License number (Belonging to manufacturer)
- 4) Officer contacts gov't license ID personnel to get ID of FAABS License holder
- 5) Gov't matches FAABS License number to ID in their system and gives information of owner to police
- 6) Officer visits firearm owner with court order and repeats steps 3 to 6 for every subsequent owner in the chain until the last legal owner has been found – person responsible for transferring the gun illegally

FBI Background Checks

- FBI converts from doing Background checks to doing License pre-validity checks
 - As crime convictions, restraining orders, mental incompetency orders occur, the FBI logs them to the Gov't ID system, which then puts a suspended flag on the Civilian FAABS license, if there is one
 - Far fewer entries than the 25 million annual background checks, so processing time goes down
- When FAABS first launches, civilian FAABS License holders can do an initial background check to get a clear status on their FAABS License and can then buy as many guns in the future until the License status changes
- FBI only needs to do Background checks on FAABS licenses that have not been cleared

FAABS Nonprofit

- FAABS nonprofit will be established
 - Maintain the FAABS Off-Blockchain messaging system
 - Maintain the FAABS App
 - Educate Gov't, Industry and Civilians about FAABS
 - Consult with Gov't, Industry, Civilians and Blockchain community about implementation and improvements
 - Will generate trivial operating revenue via minor surcharge to Ethereum smart contract gas price
 - Primary revenue expected to be through donations
 - Any excess revenue will go to further the cause of proper use and ownership of firearms to reduce misuse

Trial Use Case

- A perfect no-risk use case for FAABS are suppressors as a way to remove and replace the NFA tax and stamp
 - Gun-right advocates gain and not lose a gun right
 - Gun-control advocates get gun owners to try a fully auditable system that's superior to universal background checks
 - Government is already considering taking suppressors off NFA
 - Everyone gets to learn and prepare arguments either for or against rolling FAABS out to all firearms
- There are no suppressors currently in the hands of criminal so it's a perfect case to see if FAABS continues to keep this from happening
- After a few years of use, everyone will be more educated on FAABS and can make intelligent decisions

Win-Win

- Gun control advocates get full auditability in conjunction with universality – far superior to universal background checks
 - Eliminate illegal gun flow through straw purchase, gun show sales and civilian transfers
 - The mitigation of legal ownership misuse and stolen firearms will be directly proportional to the standards set for gov't firearm license requirements (higher standards = higher accountability = higher mitigation)
- Gun-rights advocates eliminate all the reasons for rejecting previous gun-control measures, get suppressors off NFA and get legal protection of gun rights
- Police have a robust way to execute gun checks and traces
- Workload of FBI goes down
- Gov't do not need to build or maintain a new system – Blockchain is decentralized and the FAABS Off-Blockchain system will be maintained by the FAABS nonprofit