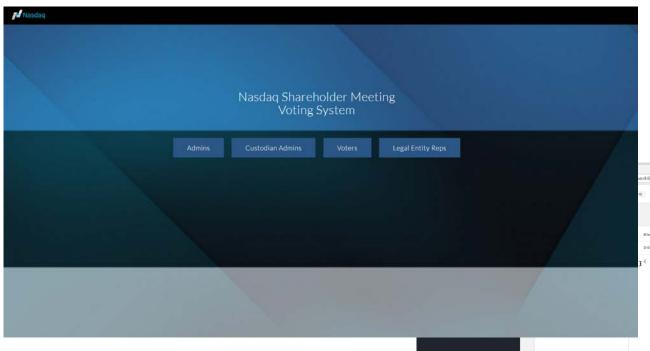


Nasdaq eVoting

From DLT innovation to market implementation

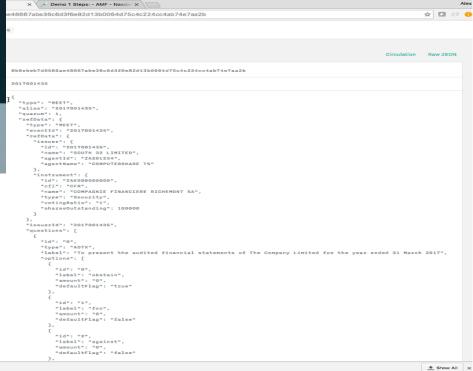
NASDAQ EVOTING – SECOND OFFICIAL BLOCKCHAIN PROJECT AT NASDAQ

Schedule 12 (Service L....pdf *



"We are going to put proxy voting on the blockchain, on the immutable ledger and obviously enable people to do that with their cell phone and have that record with them forever."

- Nasdaq CEO Bob Greifeld in Bloomberg, Oct 2015





NASDAQ EVOTING – PILOT IN ESTONIA

- Know-how over 15 years of experience in providing general meeting service
- Loyal customer base communication with different stakeholders
- 1-tier CSD access to beneficial ownership data
- Supportive environment
 Estonia's open-minded attitude towards IT & FinTech innovation
- Secure remote identification/authentication
 Estonian ID solutions for citizens & foreigners, cooperating with e-Residency initiative





NASDAQ EVOTING – MOVING BEYOND A PILOT...

- Agreement signed with Strate (Pty) Ltd late 2017 related to implementation of Nasdaq eVoting as the technical platform for the general enhancement of the voting process in South Africa.
- The solution aims to service our clients' needs across the market from transfer secretaries to issuers, custodians, asset managers and those holding shares in listed companies. Given that it is an **end-to-end solution** from the time a meeting is announced and all the way through the voting process to the publishing of results it means that **all stakeholders** will truly **benefit** within the process," said Tanya Knowles, Managing Executive of Fractal Solutions, a division of Strate (Pty) Ltd."
- "By leveraging blockchain, we are able to reduce friction in the voting and proxy assignment process and also ensure that all information is transparent to stakeholders when required and with the proper security, governance and risk procedures in place," said Lars Ottersgård, Executive Vice President and Head of Market Technology, Nasdaq.



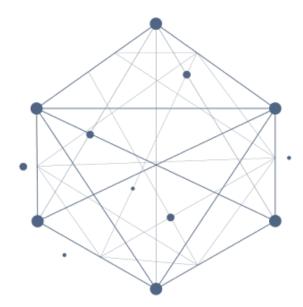


NASDAQ EVOTING – WHY BLOCKCHAIN?

Makes the voting and proxy assignment process more seamless and removes dependence on manual processes.

Eliminates reconciliation requirements.

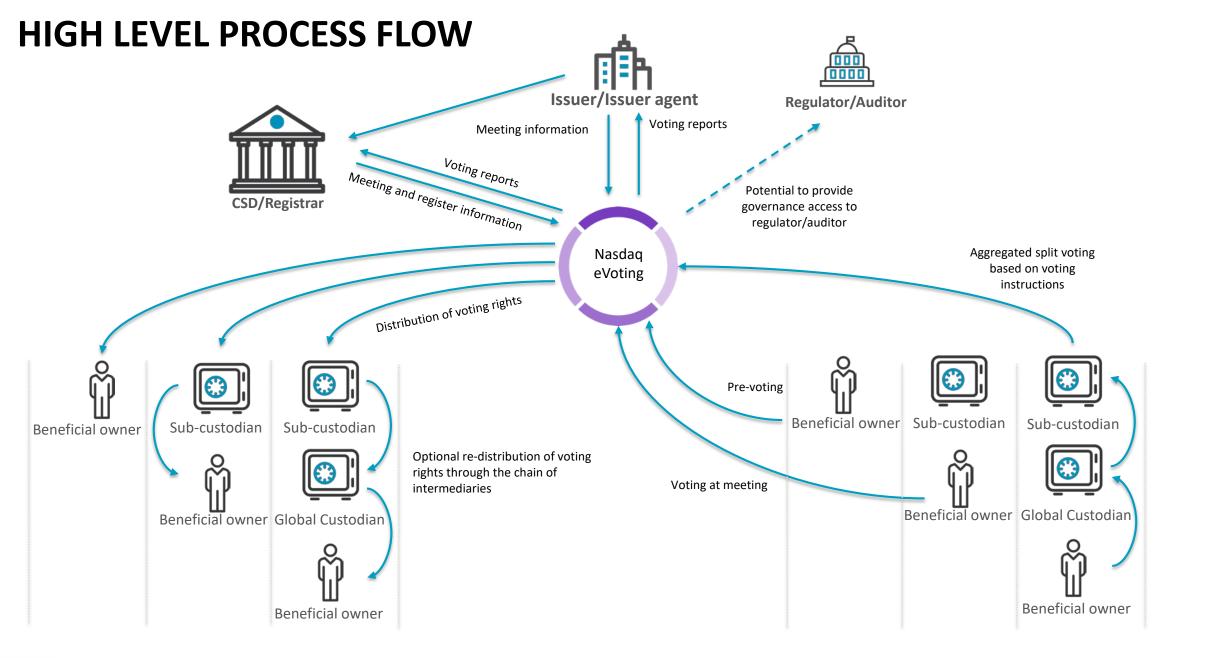
Enables the use of a single,
cryptographically secure
transaction ledger that
empowers multiple parties with
access to one point of truth.



Blockchain's immutable nature ensures that, records cannot be tampered with and all data points are stored and timestamped as they happen.

Allows for **efficient audit processes** by third parties (such as regulator, auditor, etc.).







NASDAQ EVOTING – BENEFITS FOR ISSUERS

Reliable and real-time channel for information distribution, access to

securities holders and holdings, and voting data.

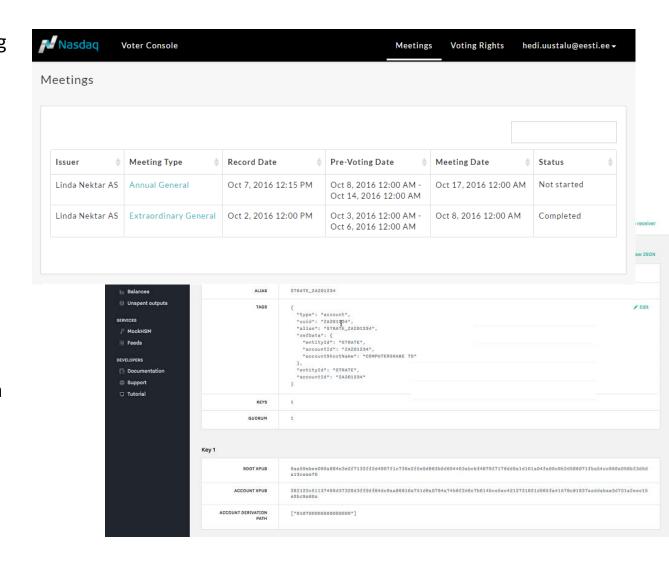
- ✓ Identify shareholders.
- ✓ Monitor chain of proxies.
- ✓ Reach quorum faster by engaging more investors.
- ✓ Receive voting results instantly.
- ✓ Vote & proxy transactions are stored in an immutable blockchain ledger (auditability).
- ✓ Engage investors in leading the company.





NASDAQ EVOTING – BENEFITS FOR INVESTORS

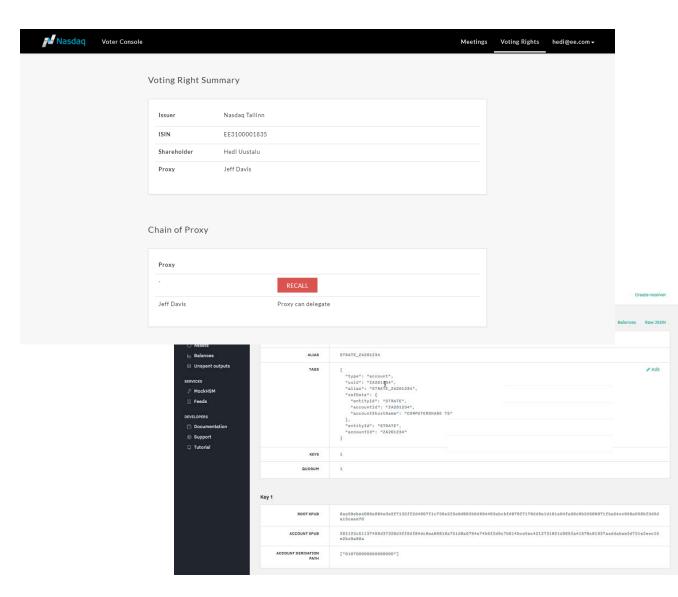
- Easy online access to General Meetings via single General Meeting account.
- Decreased complexity.
 - Information about meetings, agenda items and management proposals is easily reachable.
 - Track record of assigned proxies (i.e. chain of proxies) and casted votes.
 - Access to voting results.
- Remote participation and proxy assignment.
 - Voting before and/or during the general meeting.
- **Secure identification** of shareholders and their representatives via national / market specific ID solutions.
- Data is saved in an immutable ledger.





NASDAQ EVOTING – BENEFITS FOR CUSTODIANS

- Single solution to exchange information with subcustodians and end-beneficiaries.
- Hassle-free proxy Management.
- Decreased cost and complexity through STP.
- Reliable and secure authentication processing.
- Ability to add on services for clients.







Thank you!

Andreas Lundell – Product management Nasdaq CSD solutions and eVoting

andreas.lundell@nasdaq.com

+46 73 449 65 84