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# Authentix Strategic Interview:

## Integration of Nanotech Security Corp.

Authentix® (provider of authentication technologies & high-speed sensors for central banks) has recently been very active in the high security industry.

- In April 2023 the acquisition of Royal Joh. Enschedé in the Netherlands which is a specialty printing and security solutions provider
- In May 2023 the launch of the world's first CDI2 (Common Detector Interface 2) banknote detectors including GemVision™, a CDI2 compliant fitness solution for the determination of banknote quality
- and just now the takeover of Nanotech Security Corp. from Meta Materials which produces nano-optic structures and colour-shifting materials

In August 2024, Banknote Industry News Ltd. conducted an interview with Mr. Alan Newman (Chief Product Officer - Authentication for Authentix)

*1. BIN: Can you please provide a strategic outlook how those acquisitions contribute to the strategic outlook of Authentix.*

*Response:*

The **acquisitions of Royal Joh. Enschedé and Nanotech Security Corp. and the launch of the world's first CDI2 compliant high-speed banknote sensors emphasise the strategy of broadening the Authentix portfolio of high-security solutions** and aligns with the goal of providing the most advanced technologies for the banknote and commercial brand protection markets.

Royal Joh. Enschedé brings a rich heritage and expertise in specialty security printing and strengthens our capacity in secure document production and significantly expands product offering in multiple sectors. Further, **the acquisition and integration of Nanotech Security Corp.'s core assets puts Authentix in a unique position of advancing a game changing and market disrupting technology based in nano optic structures and colour-shifting materials.**

This next generation technology is aimed to **replace the aging micro optic technologies which are nearing maturity and obsolescence.** This nano optic platform is considered crucial for the introduction of the next generation of overt Level 1 features to the banknote industry.

These strategic moves further **position Authentix as the leading innovator in the high-security and authentication sectors, offering an array of comprehensive solutions that specifically address the evolving needs in the industry.** I would also kindly add that there was another important development in the high security industry being the recent announcement regarding the **addition of an Authentix Level 3 security feature into the De La Rue Safeguard® polymer substrate.** De La Rue has branded this under the name ASSURE™ and we are working closely in partnership together supporting the adoption of this new offering into banknotes

*2. BIN: With the latest takeover of Nanotech Security Corp., Authentix is moving into a new field of security features for the Level 1 and 2. The banknote / currency market has already a lot of market participants / players and recent launched new banknote series where equipped with 3D micro optics technologies.*

*How does Nanotech Security Corp. fit into the strategy of Authentix and how does Authentix plan to use the unique security feature developments to be successful in the Banknote Market?*

*Response:*

The **integration of the Nanotech Security Corp. nano optic technology capabilities into the wider Authentix business perfectly complements the organization's strategic focus on**

**bringing the most innovative security solutions to the industry.** The acquired legacy of expertise in nano optics and colour-shifting materials offers advanced Level 1 security features that are critical for anti-counterfeiting measures. By integrating technologies such as QUANTUM® stripe and LumaChrome® to Authentix's wider security portfolio, we can materially enhance the visual and covert security features of banknotes, ensuring the continued success of our customers and maintaining their confidence and trust.

The banknote market is indeed competitive, with numerous players and multiple technologies available. However, **the unique attributes of the newly acquired and highly proprietary nano optic platform, including “always on” structural colour and highly intuitive features and effects, gives Authentix a strong, competitive edge.** This involves leveraging these cutting-edge overt solutions along with the rest of the company's security portfolio offering to meet the evolving needs of central banks and other important clients. This not only solidifies our leadership position in the market but also opens up new opportunities to grow market share.

This new capability is also complimented by a long history and some recent new developments at Authentix regarding having the industry's most advanced fitness sensors. **One of many distinguishing capabilities of our fitness sensor lineup is the ability to detect and assess the fitness level of many Level 1 features.** The novel optical responses of features within the acquired nano optic platform are extremely well suited for detection and robust authentication with our sensor capabilities.

**Authentix**  
The Authority in Authentication

Banknote security you  
can count on



### *3. BIN: Where are the strengths of the technologies developed by Nanotech Security?*

Response:

The core technology includes the **world's first nano optic, plasmonic OVD available in the market with “always on” structural colour, 3D depth, and vivid motion. This primary technology platform has been developed specifically around 5 key pillars:**

**Counterfeit resilience** – Nano scale origination, proprietary algorithms, specialized manufacturing processes and the use of non-commercially available materials, make any reproduction costly and virtually impossible.

**Ease of authentication** – Authentication of overt technologies should be effortless, with features easily recognizable and intuitive for users to verify.

**Durability** – Developing a technology that can withstand environmental effects to maintain trust in the security feature for the full lifecycle of the banknote.

**Integration** – This is a key and beneficial characteristic that is often claimed but greatly overstated by many solution providers today! Features in our core nano optic technology can enhance banknote security through design and are developed from the beginning with the focus of seamless integration on any substrate and designed to be applied by existing, industry equipment without the need for modification.

**Innovation** – For the first time in over two decades a new and innovative nano optic technology is being introduced to the industry. This not only provides a significant challenge to counterfeiters but also creates a new platform for continuous innovation and long-term development for many years to come.

### *4. BIN: Nanotech Security Corp. will be integrated and operated via Authentix Solutions Canada. Will all communications and product issues be communicated as Authentix? For the Authentication and Currency Market?*

Response:

Going forward, all communication and product-related matters will be transacted under the overarching Authentix brand. This approach ensures a unified and cohesive brand identity,

qualifications, experience, and simplifies communication by reinforcing our market position as a comprehensive provider of innovative authentication solutions.

*5. BIN: We have learnt that Authentix took quite a few employees back to Nanotech Security Corp., which have been made redundant by the former owner Meta Material. This is a great but not so often seen approach. Can you provide some insights into this?*

Response:

Reinstating these employees was a strategic decision driven by a commitment to the existing customers and preserving the momentum and integrity of the ongoing technology development and road map. These retained employees possess invaluable expertise and experience, particularly in these highly specialized nano optic technologies. By this new team joining Authentix, we ensure continuity in innovation and will continue to maintain the highest standards of quality and technical excellence moving forward.

Moreover, this approach points towards one of **Authentix's core values to recognize and nurture our talented team members. Investing in our people is crucial for sustained success and growth.** This strategic decision will result in a faster and much smoother overall integration process.

[Find out more](#)

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