



IOT IN HARD-TO-REACH PLACES

Discover how a Swedish start-up is using Telia NB-IoT to enable remote facility monitoring – even deep underground where other networks can't reach.



“Instead of relying on one annual maintenance check-up, facility owners now have real-time monitoring of all shutters and industrial doors, and can analyse their status at any time.”

Anders Arkenstedt,
Founder and CEO of Dimon Systems

CHALLENGE

RELIABLE IOT CONNECTIVITY DEEP INSIDE BUILDINGS AND UNDERGROUND

Watching a mechanic plug a computer into his car and instantly get a full status report, Anders Arkenstedt, founder of Dimon Systems, got an idea. By connecting access doors, they could enable experts to assess break downs and problems remotely. They could then help non-specialist on-site staff to solve many of them without having to send out an expert. This would greatly reduce downtime from waiting on a specialist technician — and greatly reduce the cost of maintenance and downtime.

The value for facility managers and owners was crystal clear — but connectivity quickly became a challenge. Due to security concerns, building owners don't allow third parties into their internal WiFi networks. Neither could they use existing 3G or 4G networks as they don't penetrate deep enough into buildings or underground to reach where many of the doors are located. To find a better solution, Dimon Systems began collaborating with Telia.

70%

Fewer dispatches of technicians as facility staff now have enough information to solve many problems directly on their own.

SUMMARY



DIMON SYSTEMS



SWEDEN



FACILITY MANAGEMENT



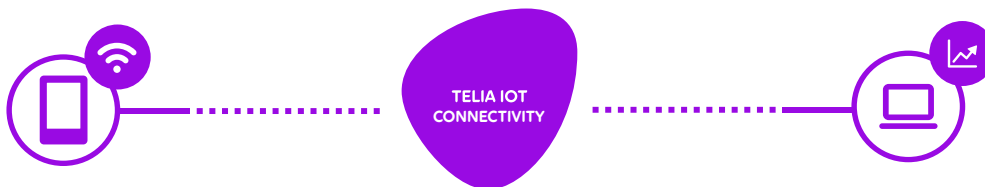
IOT CONNECTIVITY

SOLUTION

A NETWORK BUILT FOR IOT – WITH WIDER, DEEPER REACH

The best solution for Dimon Systems' challenge was Telia's NB-IoT network. It is designed specifically for low-data applications with a focus on great stability and energy efficiency. But most importantly for Dimon systems, it also enables deeper reach, making it possible to connect doors underground or deep inside buildings. With Telia NB-IoT as their primary network, Dimon Systems designed a full solution with device, connectivity and a user portal that works anywhere and is easy to install without needing integration with legacy systems.

“Working with NB-IoT, we can put our devices anywhere without worrying about connectivity.”



OUTCOME

LESS DOWNTIME, LOWER COST, AND BETTER CONTROL

Dimon Systems now helps facility managers to monitor and manage their shutters and doors in real-time. When a malfunction occurs, they are notified directly and can analyse the problem remotely. They can then help on-site staff to resolve the problem with minimal disruption or down-time. And by knowing exactly how often gates are used, facility owners can gain insight into exactly when they need to be replaced – and save millions of kronor by not prematurely replacing them “just to be safe”.

Dimon Systems is a relative newcomer in the world of facility management, but they are already taking their connected thinking to new areas. Right now they are looking into automated doors, that usually outnumber shutters in any building, and with Telia NB-IoT, it's a natural next step.

“It's important to have the right partner, and Telia is the leading operator with NB-IoT.”



For more information about our IoT services visit iot.teliacompany.com or email iot-sales@teliacompany.com.

