Resilient, Orchestrated, Productive
Stay On Task Even When Offline

The Impacts of Disconnection

Mobile applications are mission critical and any impact to them directly impacts enterprise productivity.

Disruptions to connectivity can be isolated to individuals (WIFI blind spots), they can be site-wide (WIFI/Internet outage), or they can be enterprise wide (unplanned ERP downtime). If there are no contingencies, the impacts of disconnection range from low staff productivity on one end to wholesale work stoppage on the worst end. Industry needs smart and efficient offline solutions to keep staff productive and to ensure accuracy.

Challenges

Warehouses, industrial yards, assembly facilities, and plants are filled with large amounts of heavy metal machinery, poor line of site, or are large open-air fields where reliable WIFI is simply not feasible.

Even when local configurations can be improved to minimize the problem of poor local connection to access points, there are no 100% guarantees to network or ERP uptime. They will go down.

Legacy Mitigation Approaches

Legacy approaches to manage disconnection don't scale and are cost prohibitive. The most frequently adopted mitigation across US warehouses and plants is to fallback to pen and paper. When systems are available again, teams go in and enter data to update systems. This approach is costly, introduces errors, and delays visibility for downstream processes.

Other approaches attempt to make an edge-based computing environment available to mimic the back-end platforms (Mobile Edge Computing, MEC). These approaches are cost prohibitive and do not insulate against site level WIFI outages.

None of these legacy approaches help the individual on the shop floor cursing at the device when the 200-line delivery needs to be reprocessed because connectivity was lost at line 190.

Solution

Moviynt's software is designed with redundancy into every workflow, every device. Our mobile solution, Mobilium, is designed to operate in the following modes:
- ♦ Connected
- ♦ Intermittently Connected
- ♦ Fully Disconnected

Our resilient-by-design approach resolves isolated, site-wide, or enterprise loss of connection.

Resilient by Design

Unlike costly edge strategies, resilience is standard and simple on Mobilium.

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Mobilium securely caches data on any device, e.g a full shift for all staff members. Mobilium doesn't require synchronization servers or extensive logic on the device to manage the offline data store.

Staff don't need to wait for updates to post, because Mobilium manages posting to SAP. Mobilium takes care of staff so they don't stop what they're doing to make sure the software does its job.

Orchestration
Mobilium prospectively assigns tasks to staff to allow linked processes to collaborate offline. Mobilium provides back-end automation to ensure postings to SAP occur in the correct order. For issues that may arise, Mobilium offers a workbench to handle any transaction exceptions.

- ◆ Large, encrypted data storage on mobile devices
- ◆ Guaranteed transaction posting
- ◆ Seamless IOT integration at the device
- ◆ Only no-middleware solution in the marketplace
- ◆ SAP orchestration
- ◆ Easy to learn and easy to be productive

Offline features are exposed in the Mobilium studio to configure offline solutions. The studio is used to quickly tailor and configure workflows to meet any customization required for processes ranging from Warehouse Management, Quality Management, Inventory Management, Work Order Management, Asset Management.

With each workflow, redundancy to run offline is built into the backbone of the configured solution.

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Moviynt accelerates business transformation by giving frontline staff tools that connect them to SAP without getting in the way of what they need to do. Our applications are easy to learn, easy to use, and fast. Our solution, Mobilium™, securely runs on a wide range of industrial mobility devices whether they are running Android, iOS, or Windows, or whether they are handheld or wearable. Staff can work online, intermittently online, or fully offline - critical when WIFI is unavailable. Using our native client, our customers' teams get all their device benefits: Bluetooth printing, image capture, signature on glass, RFID, OCR, GPS, and more. Mobilium™ is SAP certified and seamlessly deploys to cloud or on-prem SAP with no middleware and no new servers. Our robust solution studio allows our deployment teams to rapidly configure any workflow, quickly integrate that workflow to SAP, and get it in the hands of our customers' staff. Warehouse Management, Quality, Work Order Management, Production, Pick by Vision/Voice, and handsfree workflows are all available and fully integrated to SAP. Visit us at https://www.moviynt.com