



Equipped leading physical identity and access management solutions provider with rich security intelligence using predictive risk analytics solution built on iFusionTM platform

Client Need

Client is an early player in physical identity and access management solutions with customers ranging from large international airports, highly secure government agencies and Fortune 500 global corporations.

Client needed an automated security process to predict possible security events and take preventive actions to minimize risks.

What we Did

Provided rich security intelligence with scheduled collection, normalization and analysis of data by implementing iFusion™ analytics platform that provides parallel processing of advanced analytics algorithms and near linear scalability with reference performance benchmarks.

Utilized iFusion™ platform components for data collection, data persistence, and data processing along with its Data Science Workbench for data preparation and analytics algorithms.



Collected data from various physical and logical security systems that impact the physical security and risk posture of an enterprise



Developed metrics that provide risk insights based on employee access over time and ownership of assets using predictive analytics and machine learning

Metrics are divided into 2 categories:



- Behavior based metrics – Unusual entry/exit times, Denials, Piggybacking, Unseen doors, Badge duplication and Zombie badges

- Attribute based metrics – Excess access/badges, Unused access/badges and Wild badges



Performed aggregation of risk metrics to score employee level risk and enterprise wide view of risks



Provided the client with insights to build a dashboard that gives a birds-eye view of the potential risks across the organization, rank risks in order of severity, track specific people/site and drill down to data used to derive risk scores



Implemented a Rule Engine that applies out-of-the-box rules along with any custom rules defined by the admin and passes the preventive actions to automatically act on the predicted risks

What the Client Gained

- 🎯 Actionable and comprehensive insights that reduces risk and operational efforts for physical security teams
- 🎯 High scalability - ability to analyze behavior across global infrastructure regardless of number of systems involved
- 🎯 Accurate prediction of risks based on employee/visitor/contractor/partner/customer behavior
- 🎯 Faster go-to-market for the predictive solution using iFusion™ analytics and rule engine



General **High Overall Risk**

Conditions Active

Actions

General Details

| | |
|--|---|
| RULE NAME (Required) High Overall Risk | RULETYPE (Required) Risk Score |
| STATUS (Required) Active | SUB-TYPE (Required) Risk Overall |
| DESCRIPTION Finds people with unusually high overall risk scores, tracks them. | POLICY NAME (Required) Risk scores policy |
| | ID 21 |
| | LAST MODIFIED Sep 19, 2018 5:15:43PM |

Active Sites

Active Readers

Active People

Active Badges

Total Processed Events

12

418

4.03K

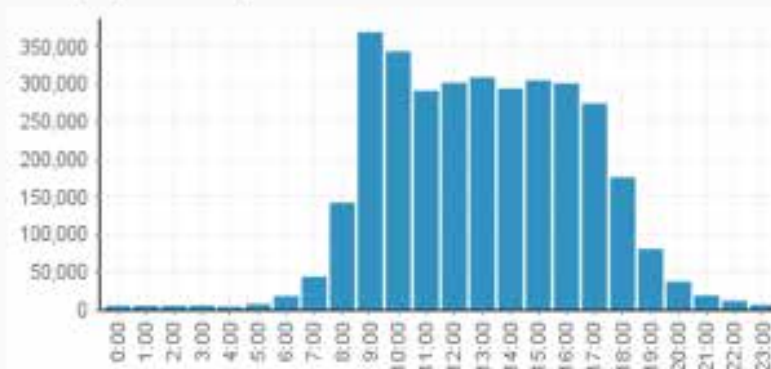
4.26K

3.35m

Highest Risk Locations (Overall)

| | Risk Level | Location | Score | Recent Anomalies | Total People |
|---|------------|---------------|-------|------------------|--------------|
| ● | Medium | Cincinnati3 | 2.73 | 16 | 10 |
| ● | Medium | Cincinnati4 | 2.42 | 36 | 379 |
| ● | Low | Cincinnati5 | 1.57 | 37 | 225 |
| ● | Low | Milwaukee2 | 1.52 | 11 | 16 |
| ● | Low | BatonRouge1 | 1.50 | 187 | 469 |
| ● | Low | Cincinnati2 | 1.24 | 302 | 1,573 |
| ● | Low | Indianapolis1 | 1.19 | 21 | 143 |

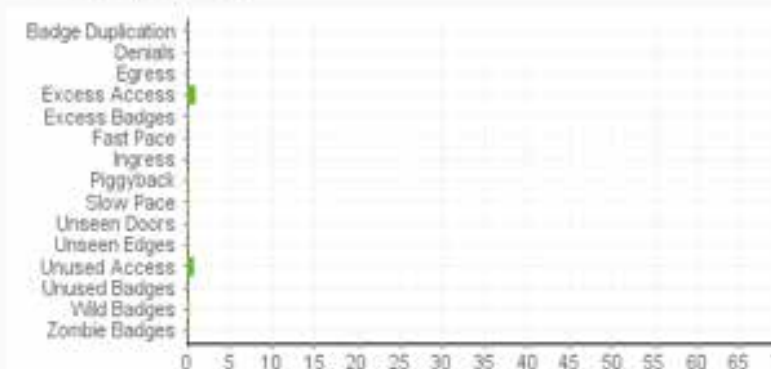
Activity by Hour of Day



Current High Risk People (Overall)

| | Risk Level | Person ID | Name | Score | Location |
|---|------------|------------|-----------------|-------|-------------|
| ● | High | 0x0029905E | F115569 L115569 | 85.47 | Milwaukee2 |
| ● | High | 0x0029C38B | F115882 L115882 | 76.95 | Cincinnati5 |
| ● | High | 15971 | F60565 L60565 | 65.82 | SanDiego21 |
| ● | High | 123405 | F40076 L40076 | 58.64 | BatonRouge1 |
| ● | High | 603200 | F125903 L125903 | 55.55 | Milwaukee1 |
| ● | High | 31969 | F32845 L32845 | 51.53 | Cincinnati4 |
| ● | High | 0x00294246 | F109793 L109793 | 51.13 | BatonRouge1 |

Risk Scores per Metric



About Innominds

Innominds is an AI-first, platform-led digital transformation and full cycle product engineering services company headquartered in San Jose, CA. Innominds powers the Digital Next initiatives of global enterprises, software product companies, OEMs and ODMs with integrated expertise in devices and embedded engineering, software apps and product engineering, analytics and data engineering, quality engineering, and cloud and devops, security. It works with ISVs to build next-generation products, SaaSify, transform total experience, and add cognitive analytics to applications.