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Safe City Physical Identity & Access Management (PIAM) Technologies



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1 Physical Identity and Access Management (PIAM)

1.1 Introduction

PIAM manages and streamlines the management of identity across disparate physical security systems, ensuring they comply to the same standards as the safe city IT systems. This enterprise level software enables the security function to integrate disparate physical security systems, automate key processes such as provisioning and de-provisioning and simplifies control of employees, contractors and other third-party identities. As a software solution, PIAM technology will work with your existing security infrastructure – with no need to replace your existing hardware. By connecting the safe city physical security operations closely to their IT infrastructure, safe city stakeholders can quickly lower operational costs, improve their compliance standing and lower their overall level of risk.

1.2 Physical Identity and Access Management Benefits

- ❑ PIAM software will offer the following benefits:
 - Operational cost reductions
 - Automate what were once manual, repetitive and subjective processes tied to managing card holder adds/modifications/removals for access control, key management, visitor management, badging and intrusion detection systems.
 - Instead of "forklift" rip-and-replace efforts incurring huge capital expenditures, a PIAM platform would bridge the disparate systems while enabling attrition and strategic capital spending.
 - Proactive compliance/regulation
 - Software-based policies, workflows and approval processes are infused in software, removing the ability for identities to have access to places they are not entitled to. Reports are only run to validate compliance and not to determine where there is non-compliance which then requires remediation.
 - Continuity and future-proof
 - Improve security and lower the level of risk to the safe city infrastructure

- ❑ Much beyond simple access control and much more than a point solution to solve an issue, Physical Identity & Access Management provides a unified approach towards physical security management. This approach uses policy-driven software to seamlessly manage the entire lifecycle of

identities, their physical access and their correlation with physical security events in a multi-stakeholder environment while providing real-time compliance. Physical Identity & Access Management is viewed as the perfect complement to the practice of identity & access management in the logical arena, whereas IT security practitioners authenticate, authorize and entitle users to have access to various enterprise applications from databases, network authentication, ERP systems and more.

- ❑ In the physical security world, PIAM software allows this same approach to identity lifecycle management. Users both trusted and un-trusted are authenticated, authorized and entitled to a variety of different parts of the physical security and city management infrastructure from actual areas.
- ❑ Most of us are eagerly watching the unremitting changes and evolutions taking place in the physical security industry. The technologies we utilize in our daily routines as physical security practitioners are gradually aligning us closer to the IT enterprise. This progression is also exposing opportunities for both end-users and integrators in their daily practices to increase their overall value and contribution to the organizations they serve.
- ❑ Enterprise software solutions specifically developed for the physical security industry are driving this new position. Video over IP, VMS and PSIM are some of the more common platforms. We are now seeing the emergence of Identity Management solutions specifically intended to drive strategic and operational value for physical security departments.
- ❑ As one of the newer enterprise software applications, Physical Identity and Access Management (PIAM) enable common policy, workflow, approval, compliance automation and life cycle management of the identity/badge holder (employee, contractor, visitor, temps) across disparate physical security systems. Additionally, PIAM applications provide interoperability with existing IT and logical security infrastructure including HR, AD/LDAP, SSO, IDM and computer-based training systems to further benefit the enterprise.
- ❑ In the current state of tight capital, shrinking budgets and more pressure to reduce operational costs while maintaining the highest levels of security and customer service, security departments and their integrator partners are finding solutions like PIAM to be a game changing addition to their strategic tool sets.

1.2.1 PIAM 78 Vendors

| | |
|--------------------------|------------------------------|
| A10 | IBM |
| Aladdin | IdentiPHI |
| Apere | Identity Engines |
| Applied Identity | Imanami |
| Arcot | Imprivata |
| ASG | i-Sprint |
| Authenticate | Jericho Systems |
| Avatier | Juniper Networks |
| Aveksa | M-Tech |
| Axalto | MaXware |
| Bayshore Networks | Microsoft |
| BEA | NetPro |
| Beta Systems | nCipher (Abridgean) |
| BHOLD | Novell |
| BMC | OMNIKEY |
| BNX | Oracle |
| Bridgestream | PassGo Technologies |
| Caymas | Passlogix |
| Centrify | Persistent Systems |
| Computer Associates | PingIdentity |
| Cisco | Prodigen |
| Citrix | Proginet |
| ConSentry Networks | Quest |
| Courion | Radiant Logic |
| Credentica | RedHat |
| Digital Persona | RSA |
| Diamelle | SafeStone |
| e-Meta | Secured Service |
| Encentuate | Securent |
| EngiWeb Security (Italy) | SecurIT |
| Entegrity | Siemens |
| Entrust | Sentillion |
| EPOK Inc. | SUN Microsystems |
| Eurekify | Symantec (Bindview) |
| Evidian (Enatel) | Symlabs |
| Fischer International | Trusted Network Technologies |
| ForeScout | Vaau |
| GemPlus | Veridicom |
| HID (Indala) | Vernier Networks |
| HP | Voelcker |

1.2.2 Video Surveillance and Intelligent Video Analysis

CCTV and the placement of cameras increase the capacity of law enforcement to monitor the Safe City project area. Strategic use of CCTV as part of a Safe City project will allow a community to continually monitor the city area, with law enforcement capable of quickly responding to crime being viewed. The video footage captured by CCTV should also prove valuable to increasing the area's criminal conviction rate and thus deterring future crime.

Cameras alone do not stop crime. Active monitoring of CCTV plays a vital role in making the use of Safe City technology effective. Communities that closely monitor their technology have had significant success. For example, Minneapolis has seen a 44 percent drop in robbery and more than 1000 arrests to date with a 100 percent prosecution rate. Flint Township, MI has had a 40 percent reduction in auto theft.

In several safe city projects, the Police Department and community partners shared a radio channel with area private security. CCTV is continuously monitored by the police department at its downtown precinct.

Thoughtfully planning a CCTV camera system and communication vehicles is important to the city Safe Zone area. As CCTV was being considered, the police department considered the following critical questions:

Video Surveillance and Intelligent video analysis provide the ability to monitor with reduced human interaction, including the following:

- Ability to handle changing scene conditions,
- Real-time intelligent video
- Analysis rather than basic motion detection,
- Greater accuracy of live and recorded video
- Scene analysis and reporting,
- Automated real-time intelligent video
- Surveillance & analysis system that detects, identifies and tracks pre-specified activities or events

Figure 1 - Video Surveillance & Intelligent Video Analysis Applications



More information can be found at:
[Global Safe City: Industry, Technologies & Market - 2015-2020](#)