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**(71) Applicant(s):**

IS5 COMMUNICATIONS, INC. [CA/CA]; 1-1815 Meyerside Drive Mississauga, Ontario L5T 1G3 (CA) *(for all designated states)*

**(72) Inventor(s):**

SOLIMAN, Tamer; 1809-18 Brownlow Ave Toronto, Ontario M4S 2K8 (CA)

LUSKIND, Yuri; 99 Redmond Drive Thornhill, Ontario L4J 0B4 (CA)

TSEITIN, Boris; 9680 Keele Street Maple, Ontario L6A 3Y6 (CA)

**(74) Agent(s):**

PENNER, Mark D.; Fasken Martineau Dumoulin LLP 333 Bay Street, Suite 2400 Bay Adelaide Centre, Box 20 Toronto, Ontario M5H 2T6 (CA)

**(54) Title (EN):** CRITICAL INFRASTRUCTURE SECURITY FRAMEWORK

**(54) Title (FR):** CADRE DE SECURITÉ D'INFRASTRUCTURE CRITIQUE

**(57) Abstract:**

**(EN):** The present invention relates to an environmentally robust critical infrastructure security framework for network use in high demand or mission critical environments and applications, including but not limited to power stations, sub-stations, intelligent transportation systems (ITS), rail, traffic control systems, chemical, oil & gas, critical manufacturing, and industrial applications is disclosed (e.g. complaint to most advanced industrial and military applications). The present invention provides a simple yet effective method suitable for critical infrastructure operations, their systems and protocol requirements. The framework includes role based access control (RBAC) down to each intelligent electronic device (IED), programmable logic controller (PLC), etc. regardless of the type of the device and without the need to have support at the IED level for specific requirements.

**(FR):** La présente invention concerne un cadre de sécurité d'infrastructure critique robuste vis-à-vis de l'environnement pour les réseaux d'environnements à forte demande ou pour les applications et environnements critiques, comprenant, entre autres, les centrales électriques, les sous-stations, les systèmes de transport intelligents (STI), le rail, les systèmes de contrôle de trafic, l'industrie chimique, pétrolière et gazière, et les applications industrielles sont évoquées (par exemple, les plaintes vis-à-vis des applications industrielles avancées et militaires). La présente invention concerne un procédé simple mais efficace approprié pour les opérations d'infrastructure critiques, leurs systèmes et les exigences de protocole. Ce cadre comprend un contrôle d'accès basé sur le rôle (RBAC) sur chaque dispositif électronique intelligent (IED), contrôleur logique programmable (PLC), etc. quel que soit le type du dispositif et sans avoir besoin d'avoir un support au niveau de l'IED pour des exigences spécifiques.

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