



HAL
open science

SODA-IIoT4CriticalNetworks: Keep your Trusted Gateway for sensitive infrastructure up-to-date with Blockchain

Erwan Gautron, Nabil Bouzerna

► **To cite this version:**

Erwan Gautron, Nabil Bouzerna. SODA-IIoT4CriticalNetworks: Keep your Trusted Gateway for sensitive infrastructure up-to-date with Blockchain. Future@SystemX 2017-Digital Days@Nano-INNOV , Apr 2017, Paris-Saclay, France. , 2017. hal-01536079

HAL Id: hal-01536079

<https://hal.science/hal-01536079>

Submitted on 10 Jun 2017

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

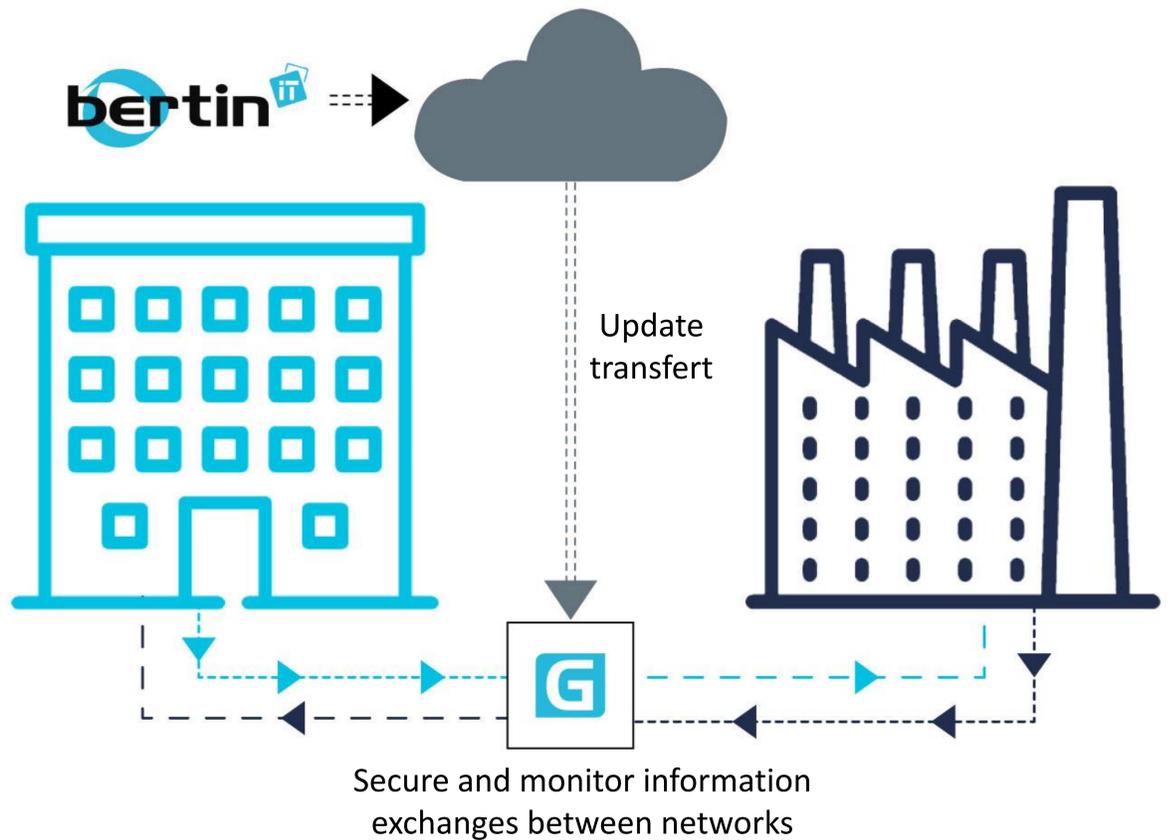
Erwan Gautron and Nabil Bouzerna

Founded on a trusted computing base **EAL5+ certified** and labelled “**France Cybersecurity**”, CrossingG® meets the requirements of partitioning and filtering to which Information Systems of Vital Importance are subject.

CrossinG®

TRUSTED GATEWAY FOR SENSITIVE INFORMATION SYSTEMS

- ✓ Enable the controlled exchange between networks of different domains or levels of confidentiality.
- ✓ Neutralize attacks on sensitive or remote systems by controlling data flows.
- ✓ Prevent data leak.



The **CrossinG®** secure gateway is particularly well suited for critical infrastructures :



HEALTH



INDUSTRY



BROADCASTING
INDUSTRIES

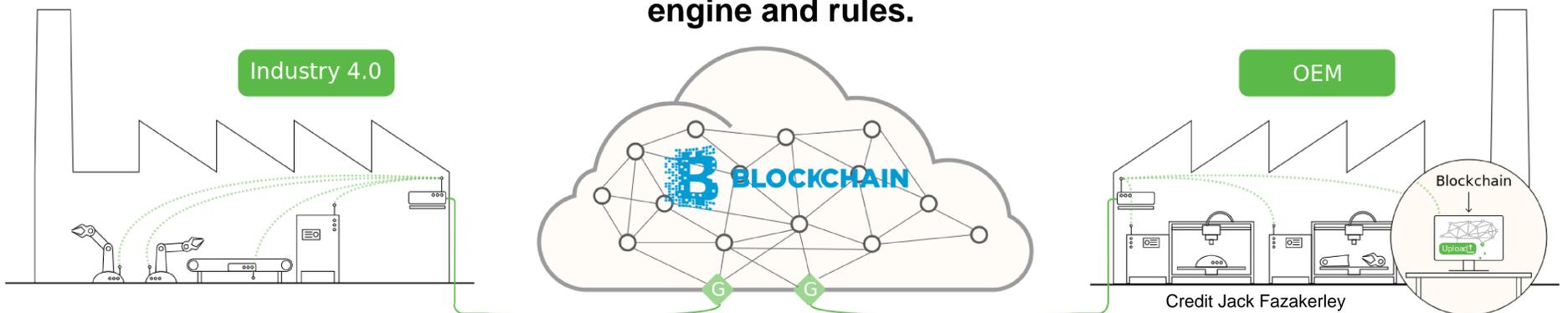


DEFENSE
& SECURITY



SERVICES

Code-designed with Bertin IT, SODA-IloT4CriticalNetworks offers a secure way to update CrossingG® engine and rules.



Secured On-the-pouce Decentralized Architecture for the Industrial Internet of Things (SODA-IloT), co-designed with IRT SystemX, CEA Tech List and Airbus Innovation Group, features innovative solutions to manage IloT access rights management & secure software and firmware updates through Blockchain technology & cryptographic signatures.



The **SODA-IloT4CriticalNetworks** demonstrator is built on top of the **CHES platform** (Cybersecurity Hardening Environment for Systems of Systems), an experimental and technical cybersecurity platform funded by **ANSSI** to support cybersecurity research effort at Institute for Technological Research SystemX - Paris-Saclay (EIC R&D project).

This platform is part of French Government “Nouvelle France Industrielle”, Cybersecurity plan, action 8: set up one or more testing and demonstration cybersecurity platforms.

