

The defense in-depth of information systems & critical infrastructures

• Use cases

- ✓ Desktop and laptop processing sensitive data
- ✓ Industrial Control Systems
- ✓ Network interconnections
- ✓ Cross-domain solutions

• Application fields

- ✓ Government agencies
Defense & Security entities
- ✓ Critical infrastructures

CC-EAL 5+ CERTIFIED



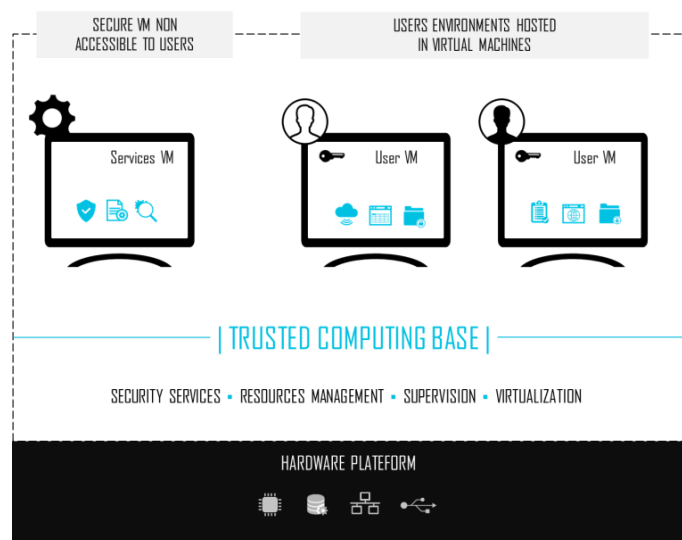
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Originally developed for the protection of Defense Information Systems, PolyXene® meets the highest security requirements while providing user friendly services and appropriate adaptability to legacy systems.

PolyXene® natively integrates several security blocks enabling to exploit data and applications of different levels of sensitivity in a single environment, with total guarantee of confidentiality and integrity of your information system.

Main benefits

- ✓ **TRUSTED COMPUTING BASE**
 - Certified CC-EAL 5 security mechanisms
 - Implementation of the defense in-depth and of the least privilege principle
 - Secure partitioning of user spaces
 - Separation and control of internal and external information flow
 - End-to-end confidentiality and integrity management
- ✓ **EASY TO USE**
 - Transparent security mechanisms
 - Centralized administration
 - Automated deployment and update
 - Standard user environment : Windows, Linux
- ✓ **COST EFFECTIVE**
 - Fully integrated solution – all in one
 - Optimized use of resources
 - Use of COTS platforms



Key features

- ✓ **ADVANCED SECURITY MECHANISMS**
 - Mandatory access control
 - Secure communication channels
 - Mass storage and USB sticks encryption
 - Audit and logging security events
 - Failure mode management
- ✓ **PLATFORM CONTROL**

The virtualization, based on 'bare metal' hypervisor ensures full control of the platform and reduces corruption threats by the hardware.

In addition, the installation of peripherals or the connection of USB sticks that are not registered on the system are blocked.
- ✓ **ACCESS CONTROL**

The Role-based access control (RBAC) associated with a strong authentication system ensures that users have the right level of authorization and access only to the required functions.
- ✓ **CENTRALIZED ADMINISTRATION**

Centralized administration provides a single point of control for performing administration tasks securely and remotely. The management of deployments, updates and maintenance of computers running PolyXene® are made easier.

PolyXene® relies on more than ten years of close cooperation between Bertin IT and the French Defense Procurement Agency on issues of classified information partitioning and secure exchange of sensitive data.

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