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HARDWARE SECURITY-BASED DATA CONTENT PROTECTION

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Hardware security-based data content protection

The method described here, uses a hardware-based handshaking and hardware bound policies executed in computing devices, to geo-fence contents being viewed in computers.

Issue resolved:

- Restrict shared contents to be available/view only in secured locations.
- Allow content owner to set policies, based on which contents will be secured.
- Allow content access agents to safeguard the content using secured active display-based containers in their computers.

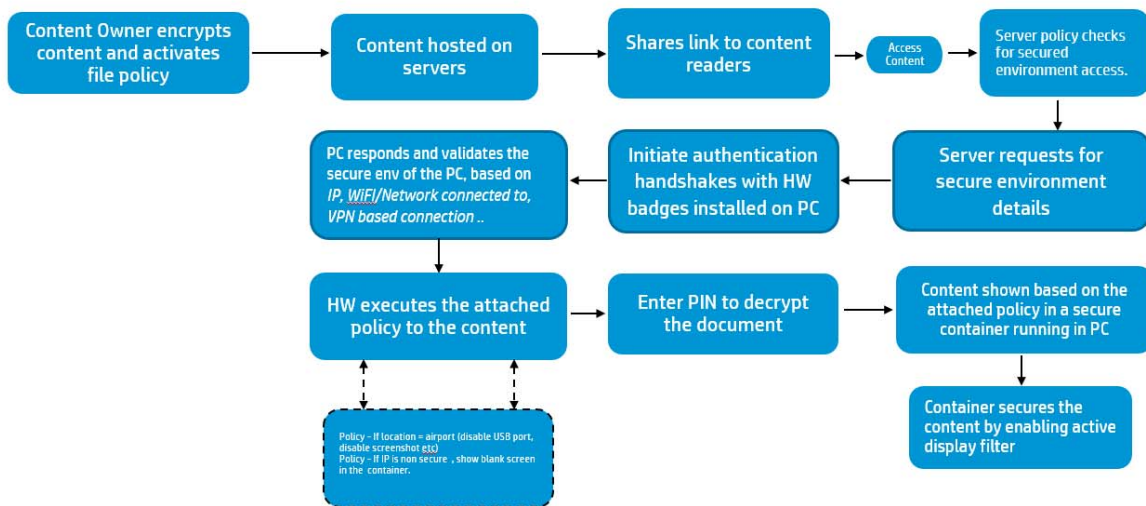
Resolution:

Contents shared are secured for both content creator and content reader using the above solution enabled on computers. This solution gives both the actors, the needed security handlers to set policy and view content in secure environment.

Implementation:

- Content creator given the security handler to set policies and encrypt the content, prior to sharing.
- Content reader, while accessing the content will be taken through following secure layers:
 - Hardware based hand shake of location information, where the content is being viewed.
 - Execution of hardware-based policy to control/lock PC USB, screenshots, active display, backlight & color.

- o Decoding of the encrypted document, based on computer 's installed hardware token.
- o Content to be viewed within a secured container secured with active display. This restricts the angle of visibility of the content and ensures content is being viewed securely.



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