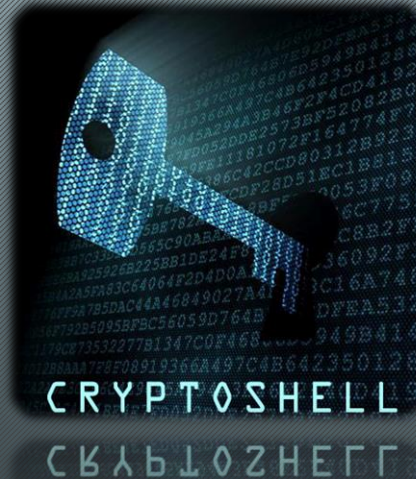# CRYPTOSHELL

Technological breakthrough

with an emphasis to GPU enabled IaaS

Approach and Ideology.

     Initially, Cryptoshell™ was developed to create an absolutely secure terminal workplace. We had developed a small operating system (smallest image is cca 50Mb), to be loaded via ethernet interface to a zero client (a computer without harddrive). Some images do not even have support for a harddrive filesystem - to be sure that everything to be stored in operative memory. Therefore it is not possible even theoretically that some information traces will stay on the terminal after switchoff.

     Growing demand for the technology and easiness of use had triggered mobile clients creation - for easier use while travelling on iPhones/iPads/Androids, as well as on Apple and PC notebooks

Cryptoconn™. Same approach, another service.

After successful deployment of terminal solution, we noticed a demand for secure voice/text communication, especially for travelling customers, who wanted to be in secure touch with their offices, while still be covered in case of loss/unfriendly extraction of a devices with keychain.

With the same approach, we had developed a method of a secure keychain delivery to device, using own developed Cryptographic Authority, and certificate based authorization. By delivering these to our Customers we got huge expertize in integration to different kind of TDM and VoIP PBX office systems to meet Client demands for seamless and easiness of use combined with security and privacy. As mobility is a must nowadays, Cryptoconn ™ mobile applications created for iPhone/iPad/Android.

IAAS approach, tailored development

As nowadays a lot of Customers complain about complexity and trickiness of licensing of IT products, hardware requirements, big CapEX for hardware purchases once entering an IT project, we at Cryptoshell are pursuing the Infrastructure-As-A-Service approach, when Customer gets maximum as a service, without exposing to hardware costs. Customer pays only for service, we. encourage him only to use terminal devices (mobile and fixed ones) which he likes, as our technology is based on well-known standards which are implemented everywhere.

We team up with hardware developers and for some applications we deliver a tailor made devices (ARM/Intel based) to be used as terminals or local voice convertors. On top of the easiness, this passive terminal approach is giving an extreme advantage in servicing every user from one central location

IaaS GPU enabled zero client secure delivery

IaaS Secure cluster for industrial design, contract manufacturing production, SCADA outsource.

It is a challenge nowadays to provide a comprehensive, reliable, easy-to use and yet secure platform for industrial design, process simulation, core critical processes.
When it comes for effective teamwork, especially addressing geographically distributed engineering teams, with time difference, language barrier, different modeling approaches, different software products used - one can feel the complexity of managing such a process.
If you add here need for DLP control of drawings and 'how-to', NDA's for contract manufacturing or digital copyright control for video post production one can understand the liabilities may occur suddenly if the control is not tight enough.
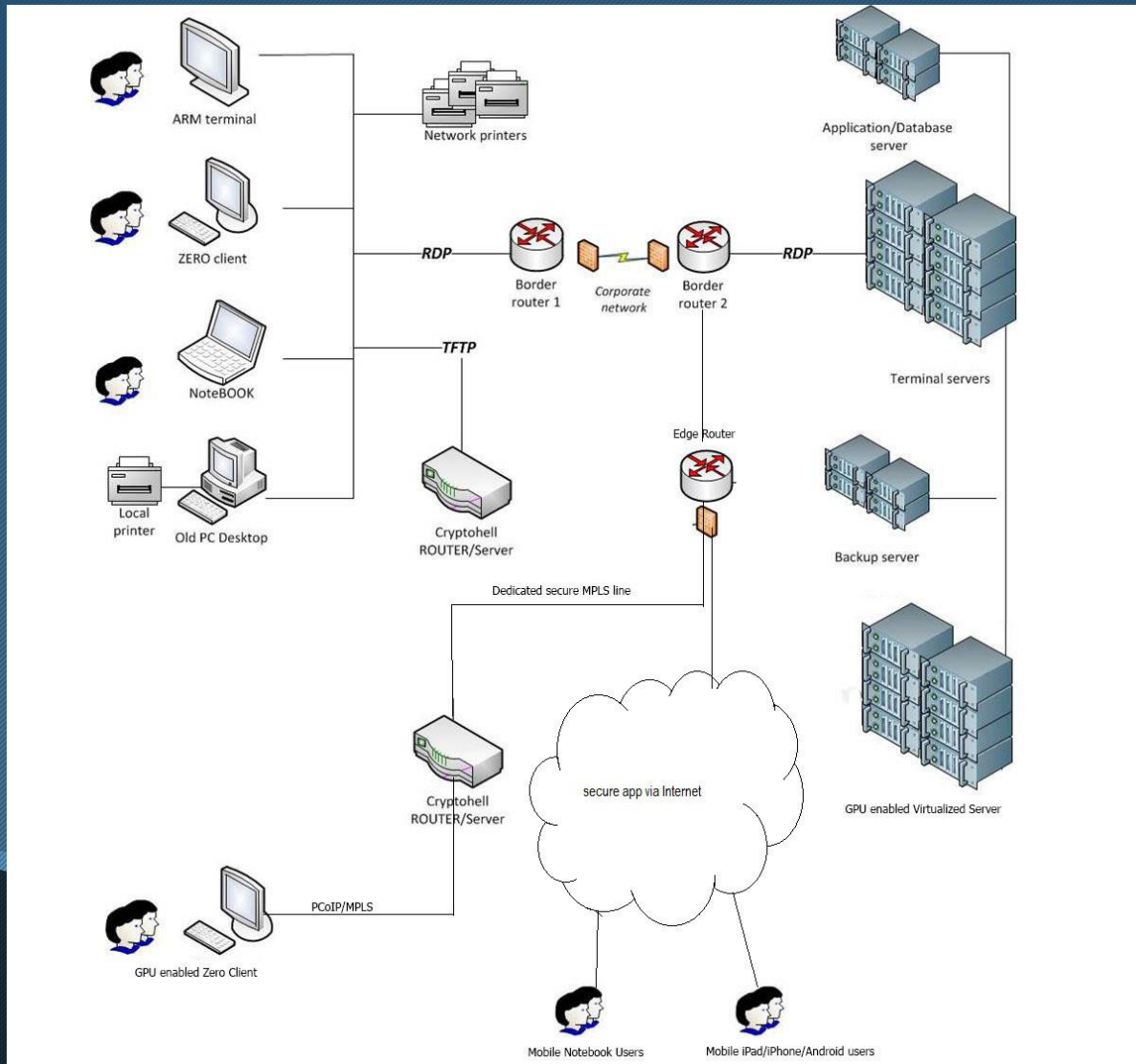
IaaS GPU enabled zero client secure delivery

And yet more - once you would like to have a solution, when the cost is not coming from Aerospace/Defense for teamwork solutions with proper DLP - now you are close to understand the complexity and challenges for a midsize contract manufacturing production facility or visual effects studio to organize a proper teamwork environment at a competitive cost.

It is hard to get a contract manufacturing order, even harder to get a contract for video fx production, remote and secure SCADA outsource, because in locations when professionals costs less the copyright is a myth. So you must have a proper DLP in place, ensuring your customers no leaks will be once you start working on their project with their Intellectual Property - drawing or raw video files.

To ensure that you would better have a system, which would allow your employees to work properly via terminals but to ensure they cannot copy the copyrighted material. Preferably physically ensure.

sample infrastructure chart

IaaS GPU enabled zero client secure delivery

That is why a team of virtualization specialists engaged some prominent of graphical/cad design experts in a project, that ended up in a hybrid platform for a DLP controlled, sustainable and reliable platform, where simple secure controlled remote desktop access would be combined with ability to deliver full graphical processing power to certain team members, yet physically excluding possibility of copying/distributing copyrighted material. In cooperation with hardware chip producers, we are proud to present a hybrid solution, based on zero client concept, which is available for a IaaS (Infrastructure as a Service) approach, as well as turnkey installation on request. Moreover, we are not really limited by location now, so you can store you data in a controlled TIER certified datacenter in a safe haven location, and we'll deliver you an enciphered secure channel for all your teams to be working smoothly and perfectly.

For executives and financial or administrative personnel a lighter, faster and less resourse dependent model is used, with on the run easy mobile access for executives and key personnel from

This concept combines flexibility of Terminal access with power of dedicated GPU enabled virtualized desktops, to deliver state of art, DLP enabled, comprehensive and commercially attractive solution for midsize companies - contract manufacturers, SCADA servicing companies, video effectd production companies - all those professionals, who know how to deliver a result and want to be sure and ensure their customers no troubles will happen because of a human factor.

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