

In life, some things are inevitable:







Windows Upgrades



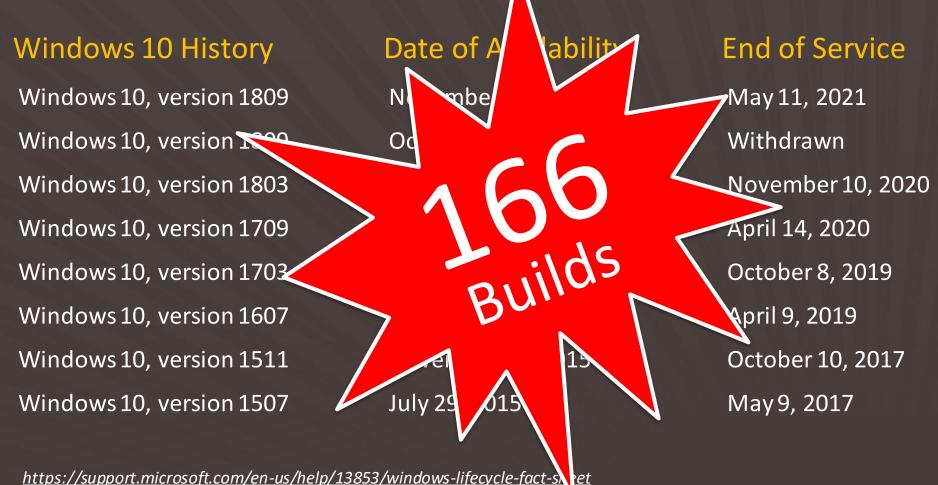






WINDOWS ON THE DESKTOP

Seven versions of Windows 10 to date



Evolving Hybrid End-User Computing Landscape

From Hardware to Software to Services for Management & Security

Citrix 36% Microsoft 20% VMware 19% AWS 5% Worldwide Unified Endpoint Management Software ~\$3B in 2017

PC's/Tablets
~11B installed
\$580B annually
2017

2017

VDI/VCC

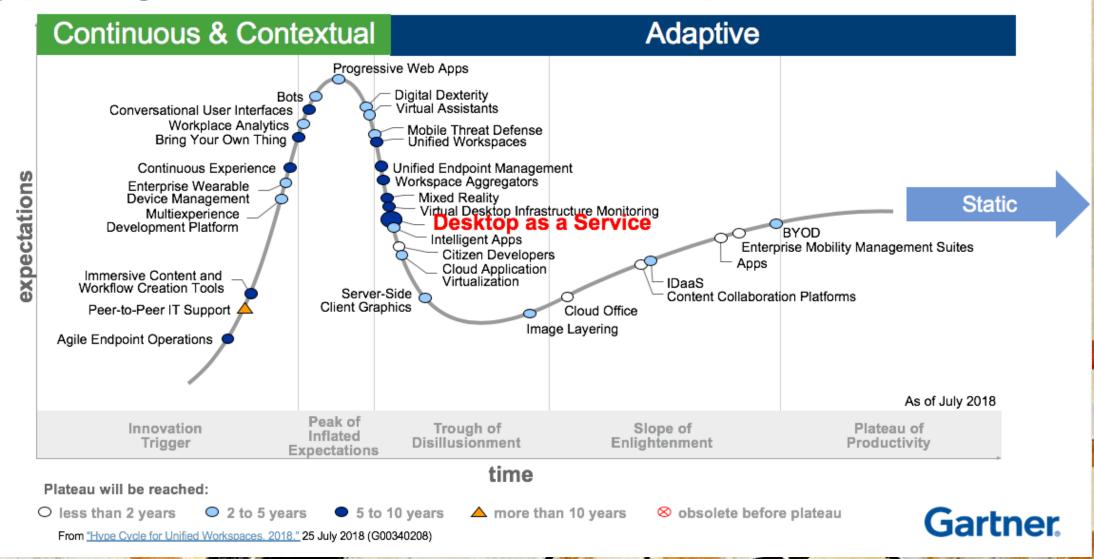
\$4.0B

2017

- 660M installed business PC's + 800M installed consumer PC's
- 92M installed business tablets
 + 5.4B consumer tablets
- 3.8B installed smartphones
- Growth is flat to down



Hype Cycle for Unified Workspaces, 2018



2019 "YEAR OF VDI" SURVEY RESULTS

Applications are the main reason for organization to move towards VDI:



98%

Office Apps

Office and Task Worker Apps 48%

Development Suites

Java Developer Tools or Visual Studio Apps

46%

CAD/CAM Apps

Designer Tools

41%

Modern Web

Apps

Modern Web-based Apps like Concur and Salesforce 26%

Video Apps

Video Viewers or Editing Tools 19%

WebGL Apps

WebGL-based apps

6%

Other Apps

Apps like EMRs, Medical Software and Administration Apps

Source: https://theyearofvdi.com/

Copyright: Johan van Amersfoort, https://vHojan.nl

LINUX CLOUD & VDI ENDPOINTS

Our research indicates two things: Thin Client sales will grow faster than PC sales. And, among Thin Clients, Linux will grow faster than Windows."

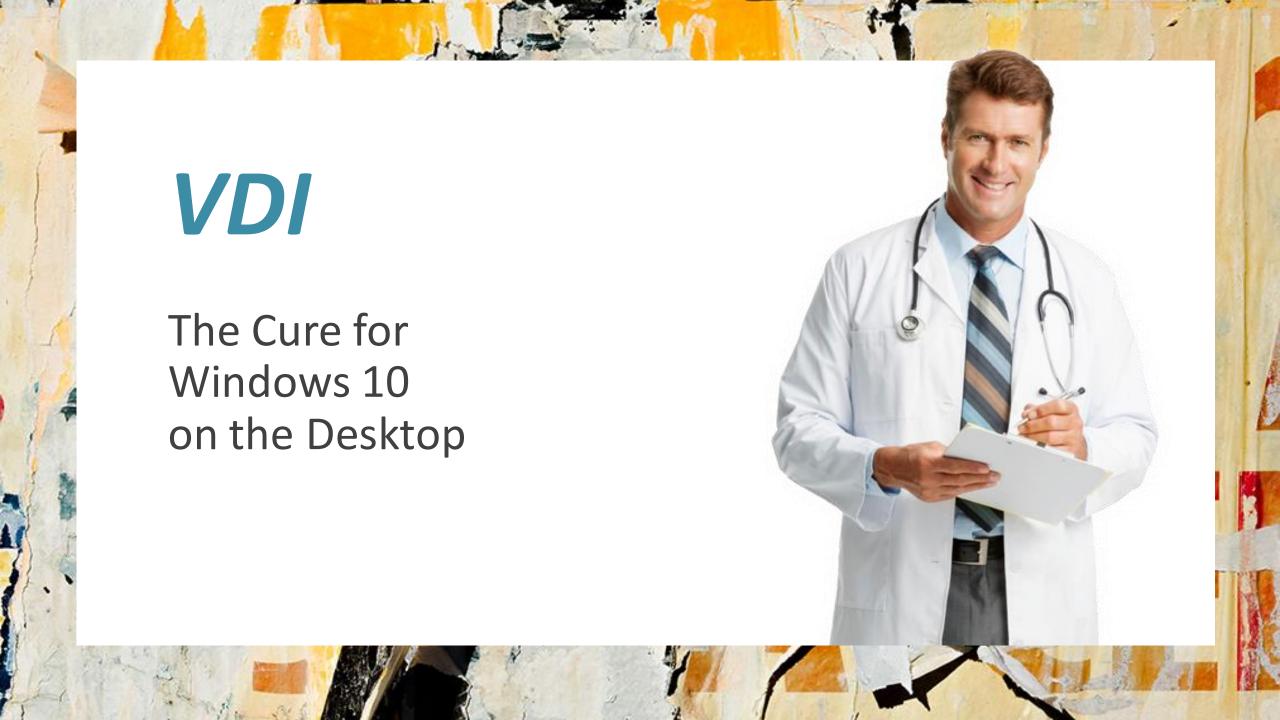
IDC on Endpoint Device OS:





ALEC GEFRIDES, INTEL

Thin Client Segment Leader





What's the solution: end user productivity requires:



Application Availability



Performance



A Secure Endpoint

Desktop Primary Applications:















zoom





ACCELERATE PRODUCTIVITY

For Every User, Any App



Knowledge Worker

Providing business users the highest level of experience for all their apps on any device



















Uncompromised experience for professional graphics users allowing them to design on the go







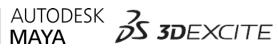












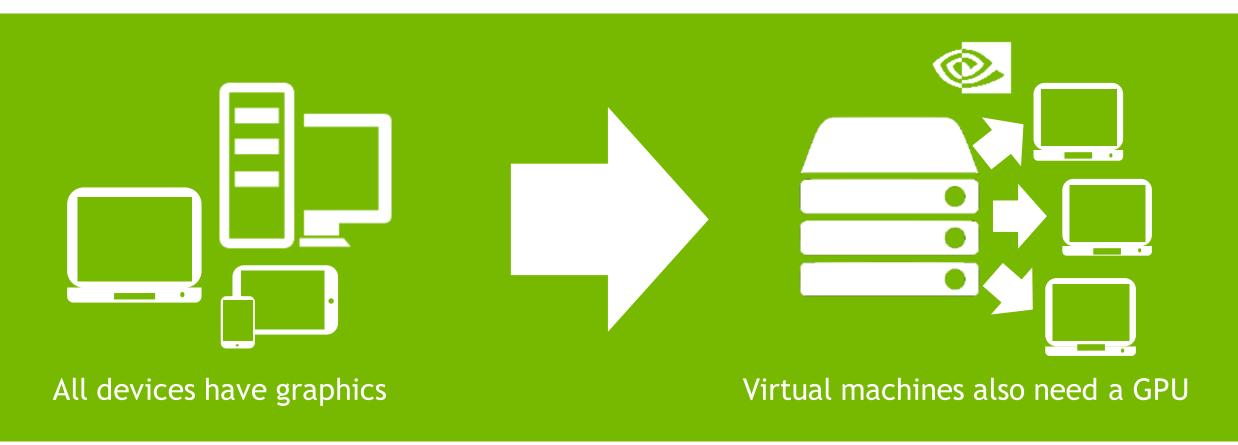
Scalability

Performance



PERFORMANCE FROM THE DATA CENTER

NVIDIA Virtual GPU technology delivers graphics accelerated virtual desktops and applications





WINDOWS 10

Highest Graphics Requirement of any Operating System to Date







Windows 10 requires 50% increase in graphics usage, compared to Windows 7



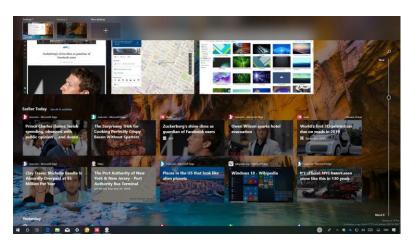


WINDOWS 10 BUILDS GET MORE MASSIVE



Windows 10 in 2017*

32% increase in graphics usage from Win7



Windows 10 in 2018*

50% increase in graphics usage from Win7

- More 3D features (Snipping Tool, Timeline)
- Set customized graphics performance by application Fluent design UI including new "acrylic" texturing
- Motion improvements bring super smooth animations to dropdown menus, opening a new tab and more

20% increase in GPU consumption in Windows 10 from 2017 to 2018

3X increase in GPU consumption from Office 2010 to 2016





MODERN APPS IN THE DIGITAL WORKPLACE

Demands More GPU

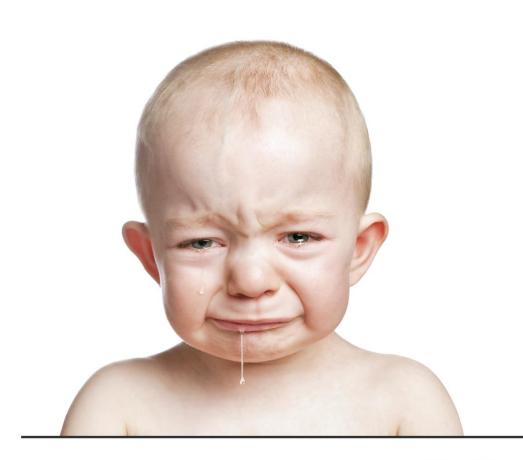


Applications that require graphics has doubled since 2012

Over half of enterprise users access at least one graphics accelerated app



WannaCry OR WannaSmile

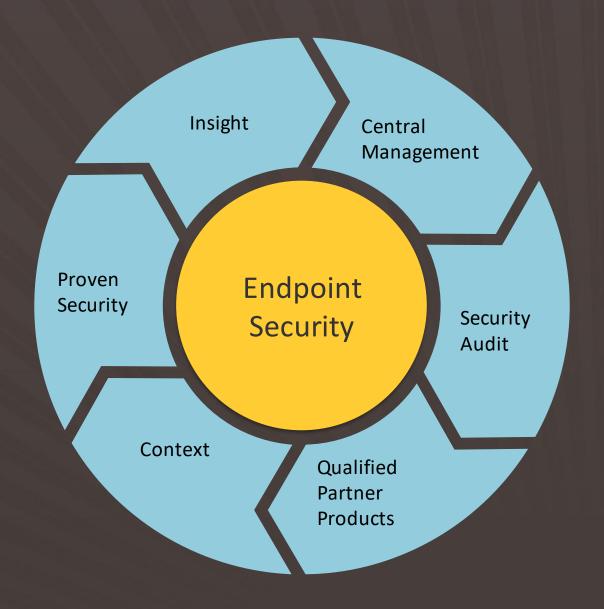






...with IGELOS





Best Practices: Skype for Business w/ Citrix, IGEL & NVIDIA



Validated Solution

Microsoft & Citrix

Performance



DataCenter raw processing power Highly efficient protocol Endpoint accelerations



Security

VDI

UD Pocket



- Endpoint security
- Performance
- Device Support: headsets
- UD Pocket converts any device

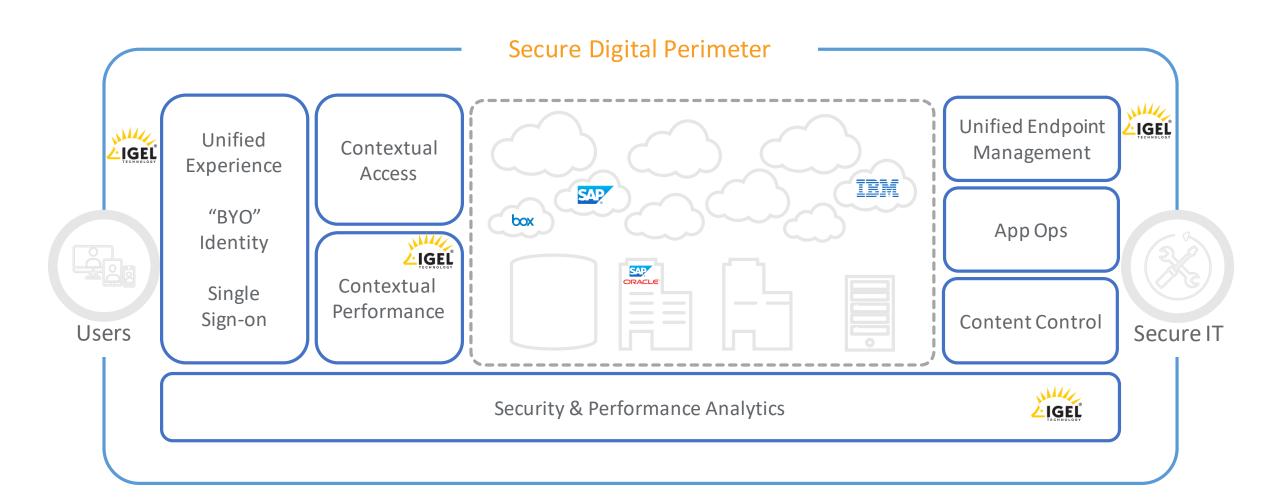


- Performance
- Graphics acceleration

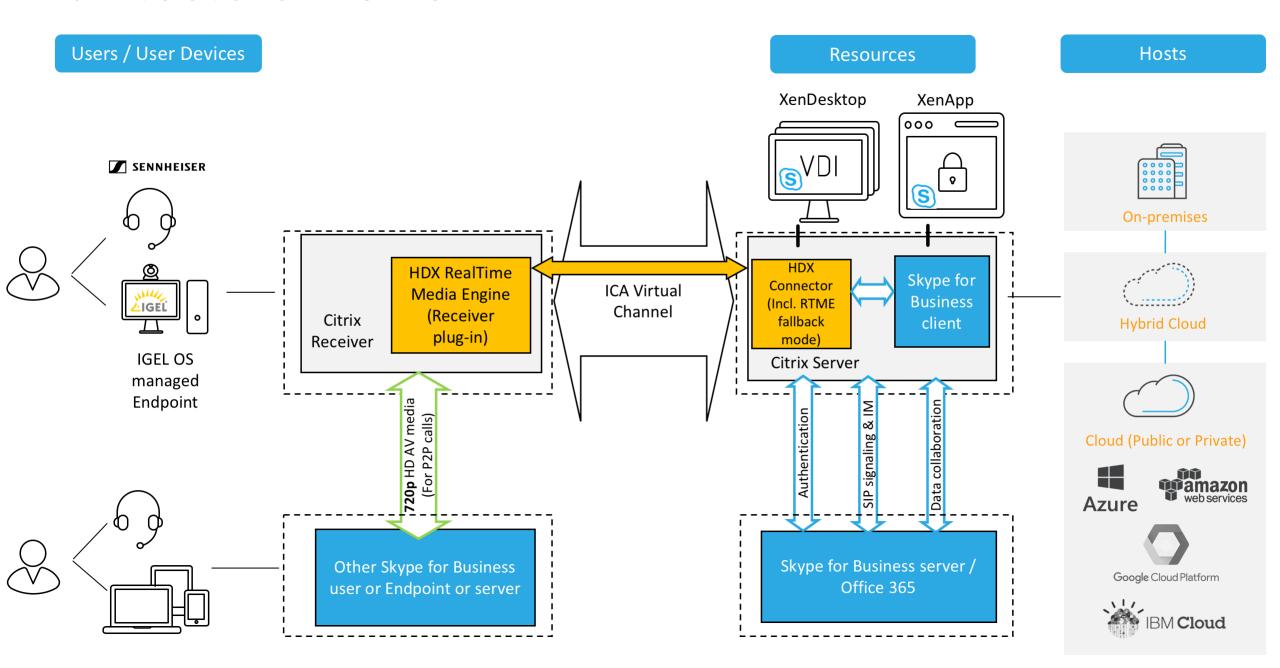


- Performance -> ICA
- VDI -> Security
- Portability

Citrix Secure Digital Workspace



Architectural Review:





Demos



- Windows 7 performance no NVIDIA
- Windows 7 performance w/ NVIDIA



- Windows 10 performance no NVIDIA
- Windows 10 performance w/ NVIDIA



- o IGELOS performance no NVIDIA
- o IGELOS performance w/ NVIDIA



- Performance for Skype for Business no NVIDIA
- Performance for Skype for Business w/ NVIDIA



Conclusions



most mature VDI **solution**



belongs in the DataCenter



on the endpoint is the **most secure** and **cost- effective** solution



the best way to **deliver** Windows 10

Graphics acceleration with



makes sense and is **cost-effective**

Next Steps Visit IGEL at booth #328 Download the Software from: www.igel.com/download

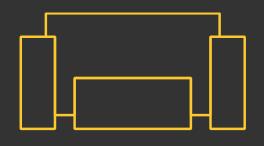
ENTER FOR A CHANCE TO WIN



The most anticipated all-electric, software-defined car on the planet.



How to Enter



Attend 1 of the qualifying IGEL events



Complete a short online survey



Complete a 30 minute demo to be entered to win

Background Materials



HOW IT WORKS:

IGEL OS[™] indexes each endpoint.



All managed from one central interface.



SysTrack.

Control UP

liquidware

