

DISRUPT

END USER COMPUTING FORUM 2018

IGEL Roadmap 2018

SOFTWARE / HARDWARE



Software

The background features a solid yellow upper half. The lower half is composed of several overlapping geometric shapes: a large teal triangle on the right, a smaller yellow triangle on the left, and a dark blue trapezoidal shape at the bottom center. These shapes create a layered, mountain-like effect.



4K display virtual split



UD Pocket

- New Form factors
- USB-C



Unified communication:

- Jabra and Plantronics Headsets
- Cisco VXME 64 bit support
- Avaya / Unify integration under investigation



Partner Ecosystem

- Cherry Keyboard Encryption
- Lakeside Systrack support
- Devicetrust
- PrinterLogic implementation

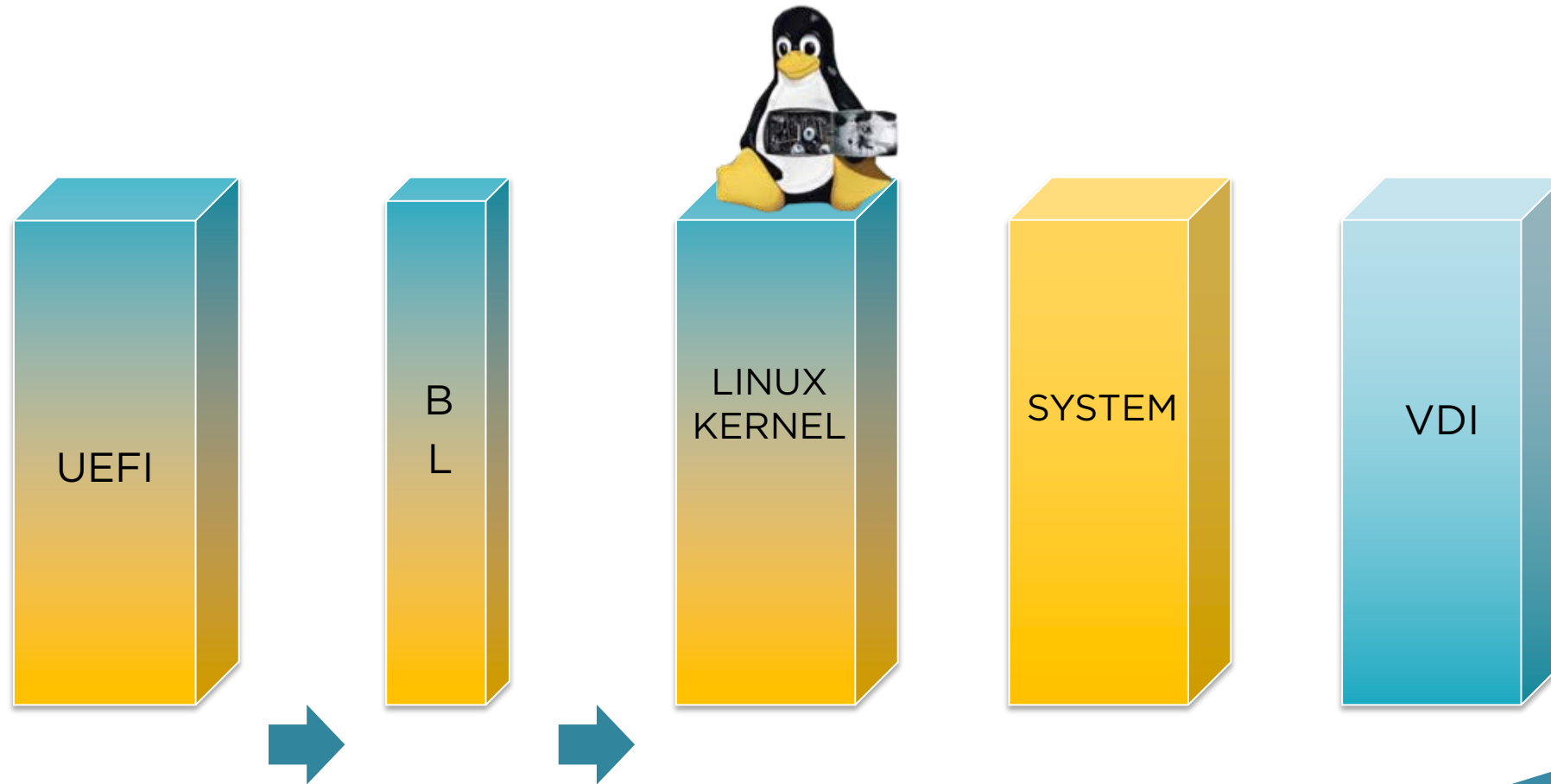


Security

- Enhance Endpoint Security
- Firefox Lockdown
- Secure Boot




Secure Boot - Mechanism



Windows 10 IoT



Windows 10 IoT

-  support
- UMS integrated certification distribution
- Snapshot mechanisms based on Microsoft's WIM format

Universal Management Agent - UMA

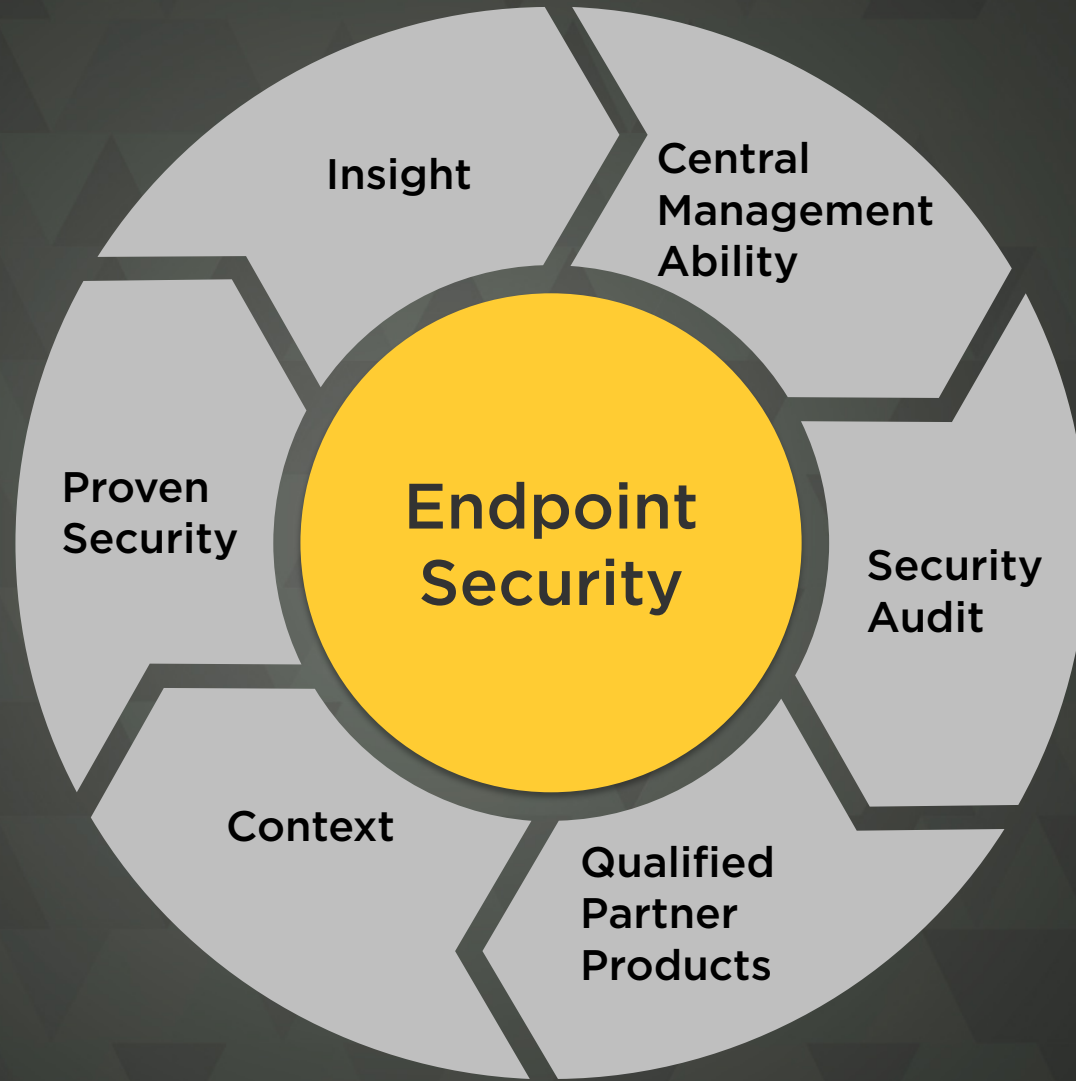
- IGEL rescue Linux available as an option
- Equip every device with a rescue OS
- Snapshot any device with WIM format

Endpoint Security

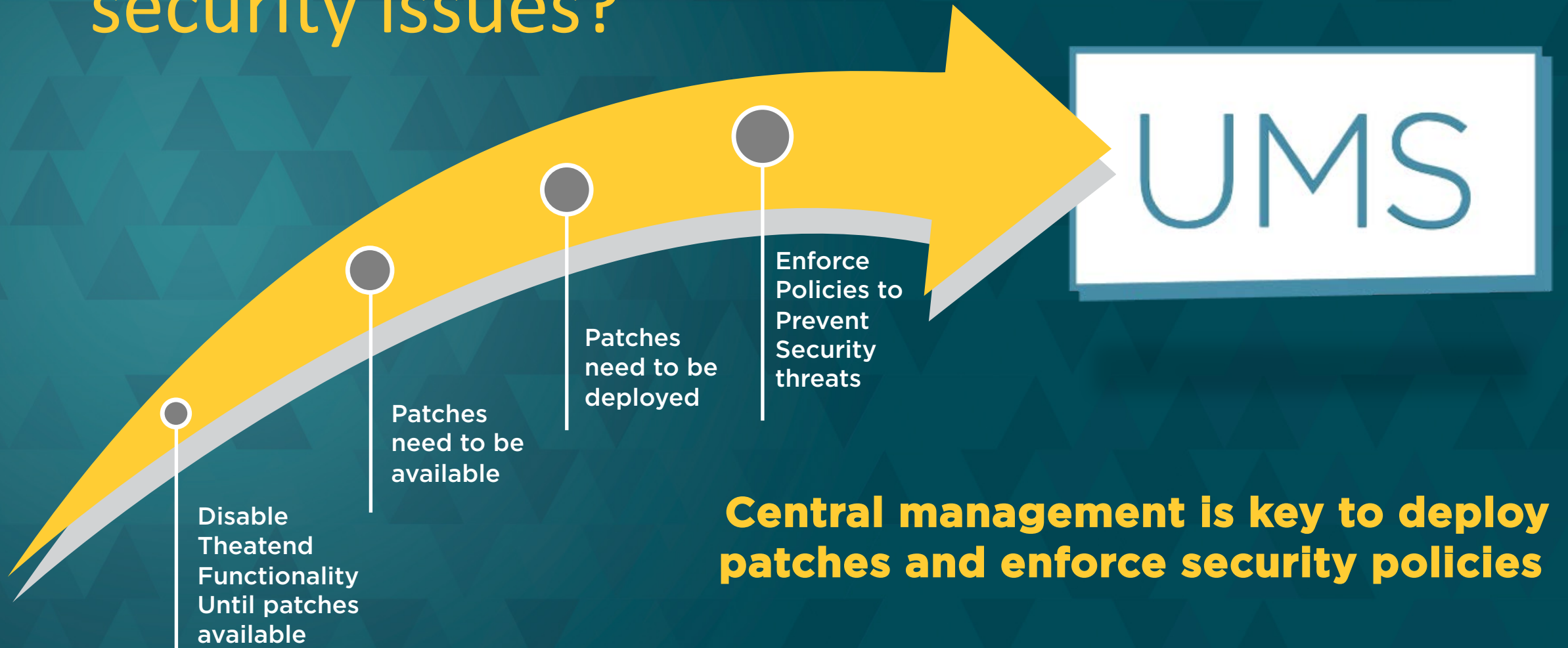
The background of the slide is a solid yellow color. In the bottom right corner, there is an abstract graphic composed of several overlapping geometric shapes. These shapes are in various shades of blue and teal, creating a layered, mountain-like effect that slopes upwards from left to right.

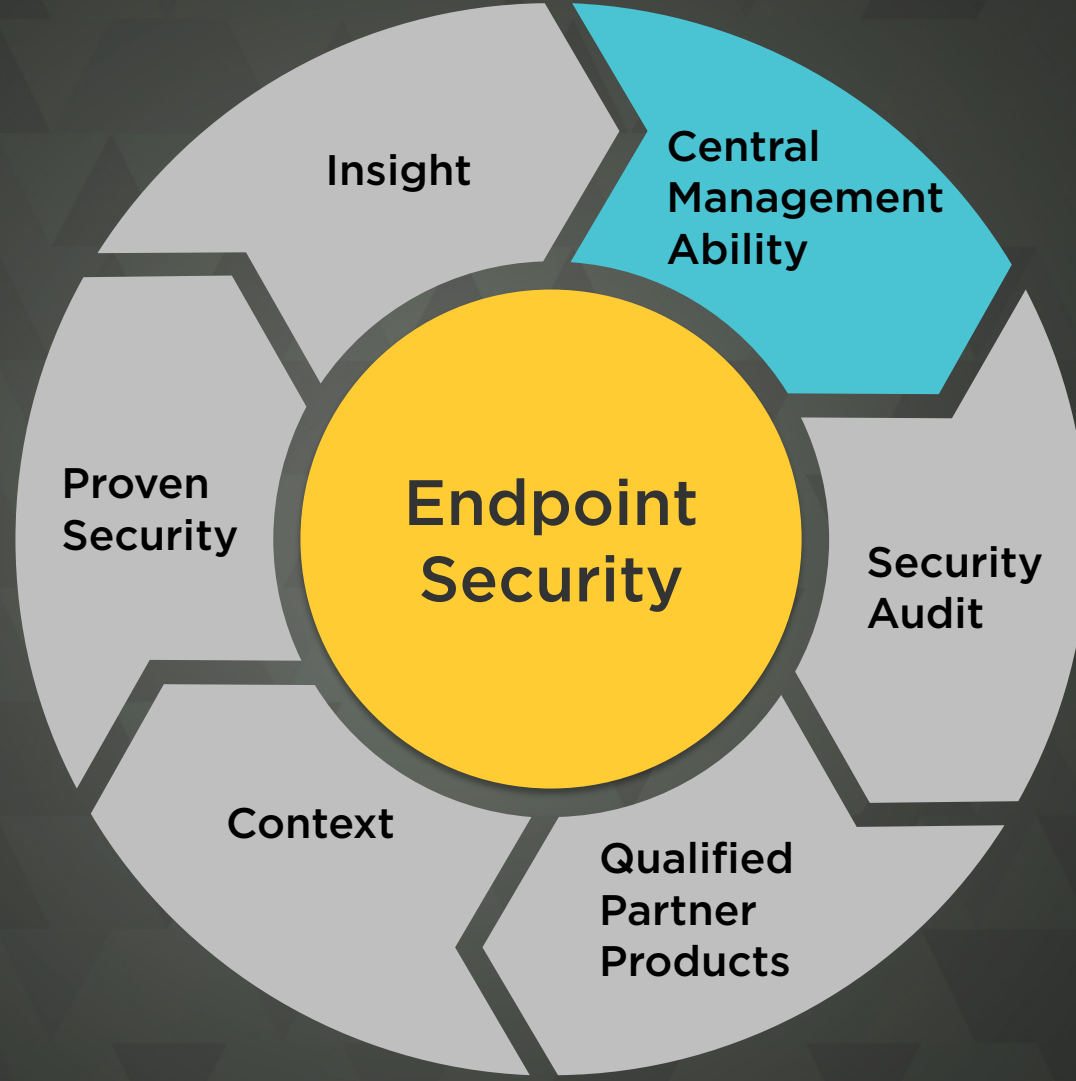
IT business will be driven by SECURITY in 2018





How to mitigate the security issues?





Security audit



- Highly configurable environment
- Fast integration of new features
- Quick adoption to market requirements
- Highly distributed environments



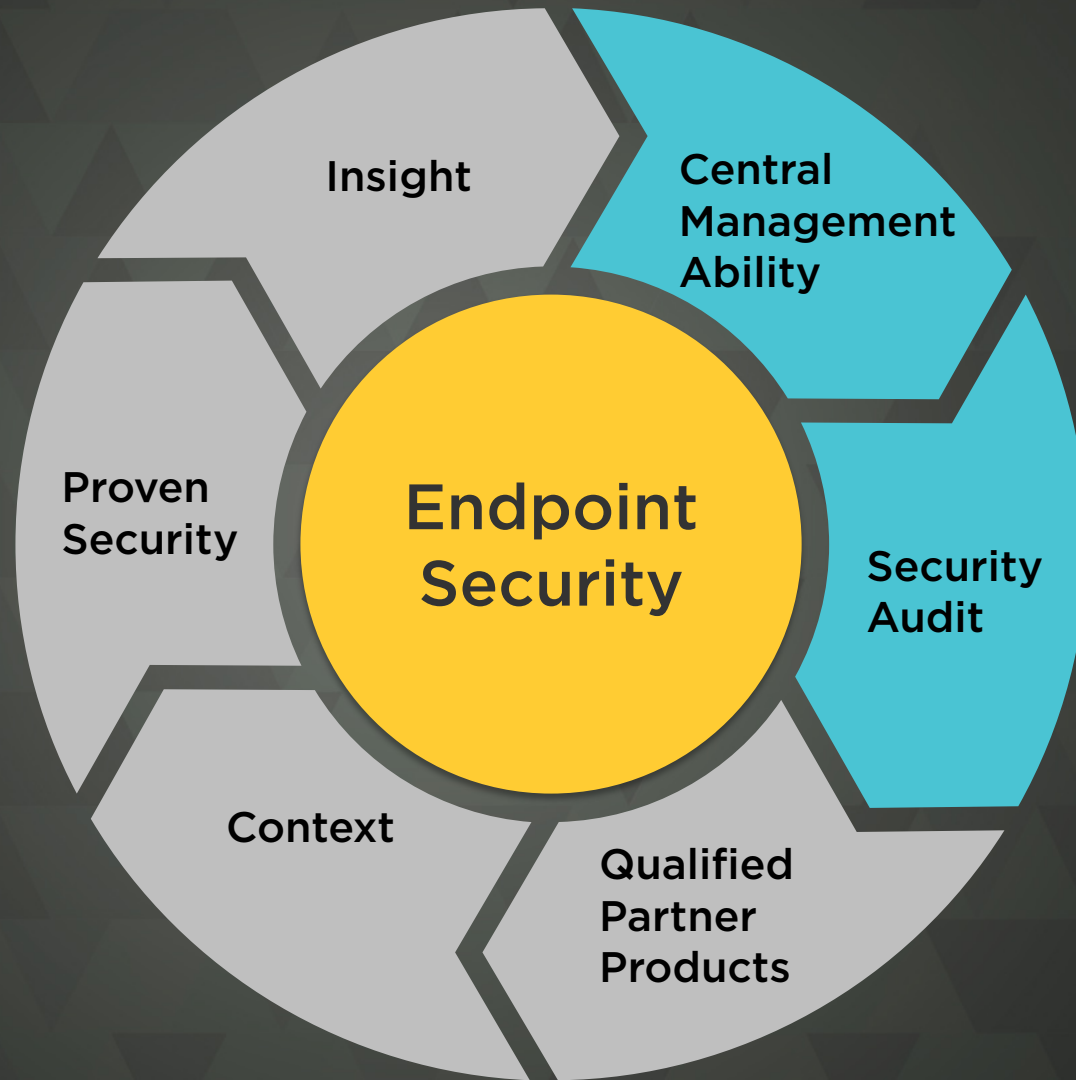
- New security threats require changes
- Current security status needs to be documented
- There is no fixed secure setup

UMS Secure Mode

UMS needs to:

- Check current system status
- Recommend changes to increase security
- Create reports on status quo
- Trigger automatic checks on:
 - Configuration changes
 - Firmware updates

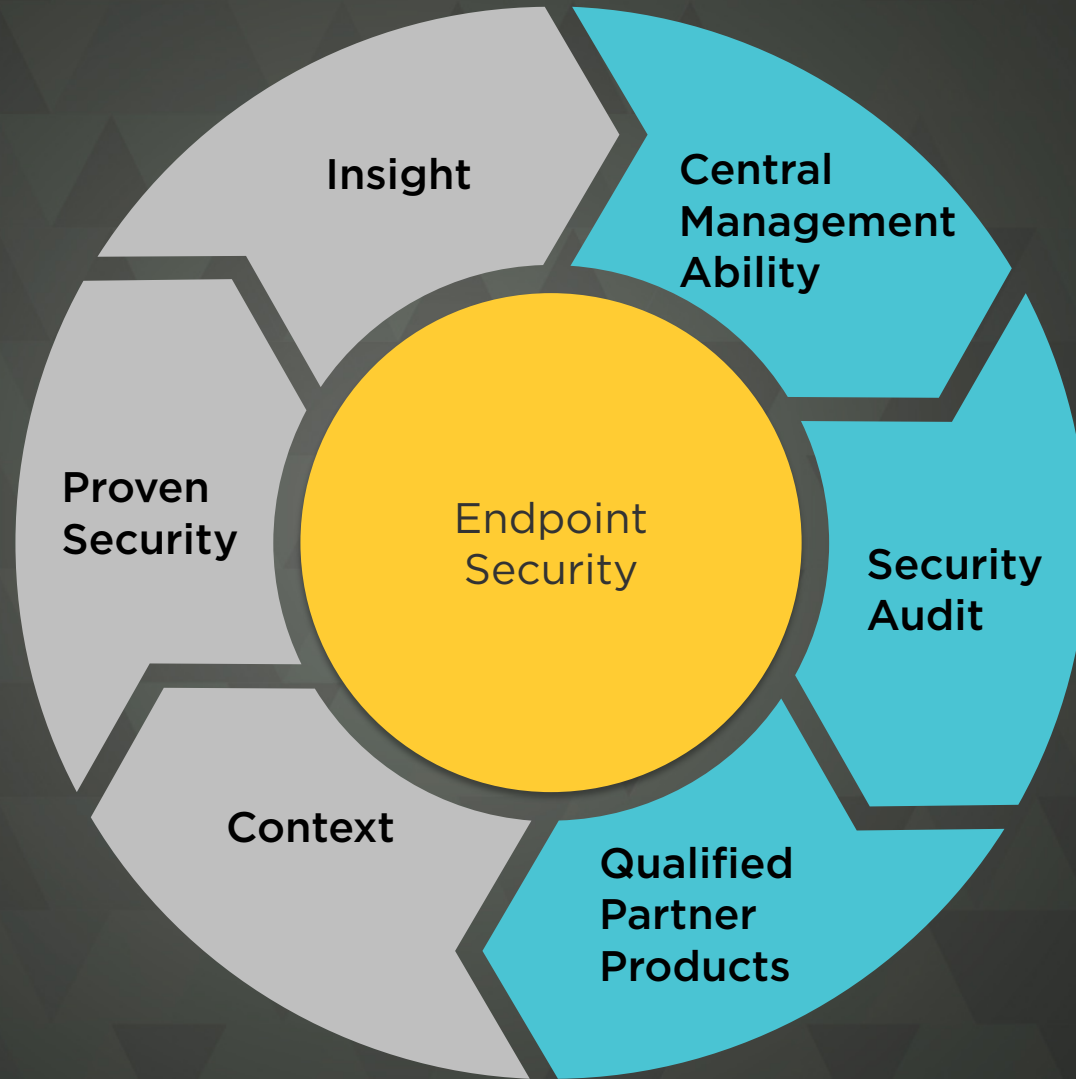




Qualified Partner Products

- Certification program for IGEL qualified components
- Active partnership between IGEL and Technology Partner
- Solution required to be available at IGEL
- Active exchange on security challenges → quick mitigation possible
- Always up to date solution integrated
- Proven partnership visible for customers





Contextual Configuration

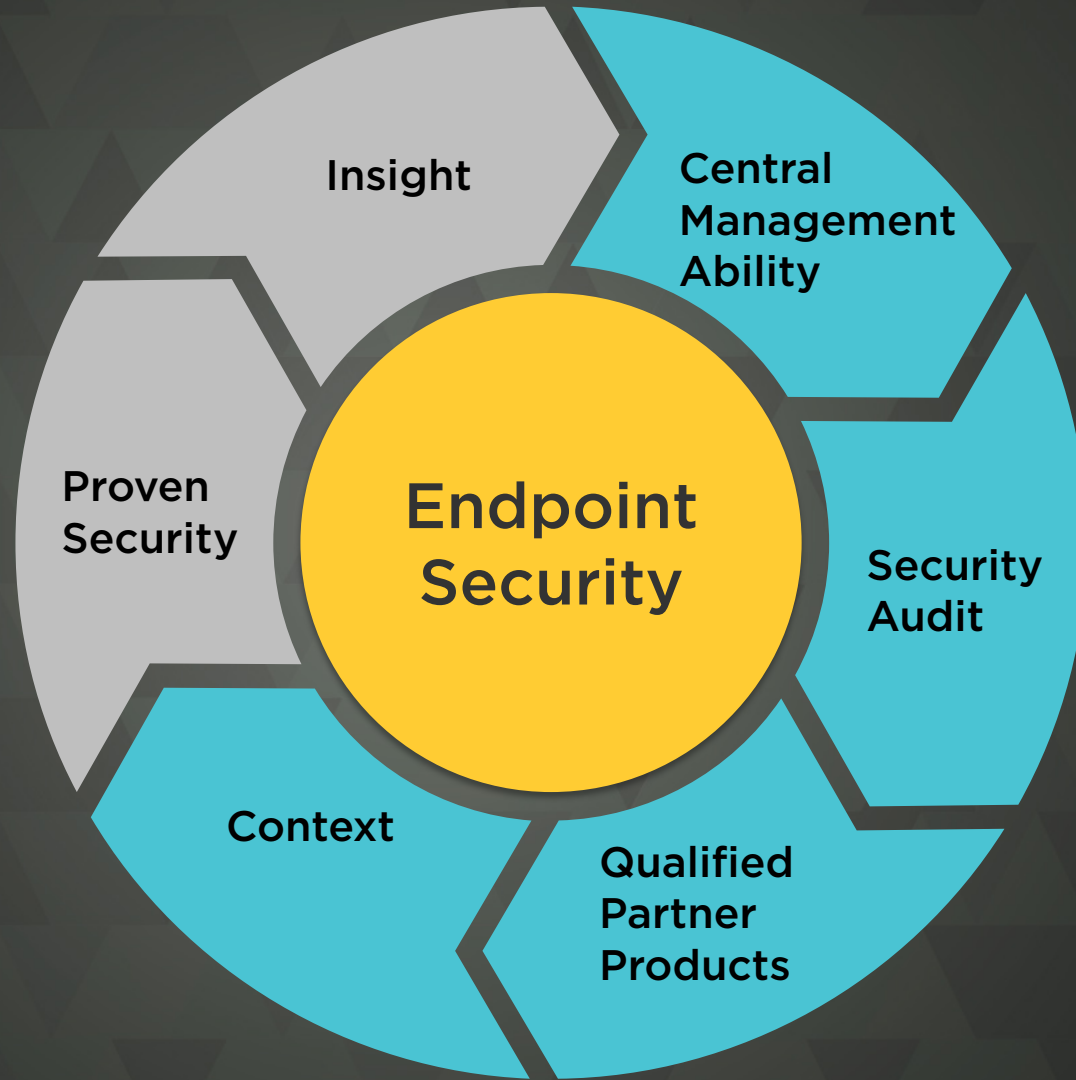


**UMS
DEVICE POLICY**

DEVICE

PERSONA

CONTEXT





PROVEN Security



- Enables automatic regression tests
- Going to be implemented for:
 - IGEL OS
 - UMS ICG
- Based on CIS-Cat model



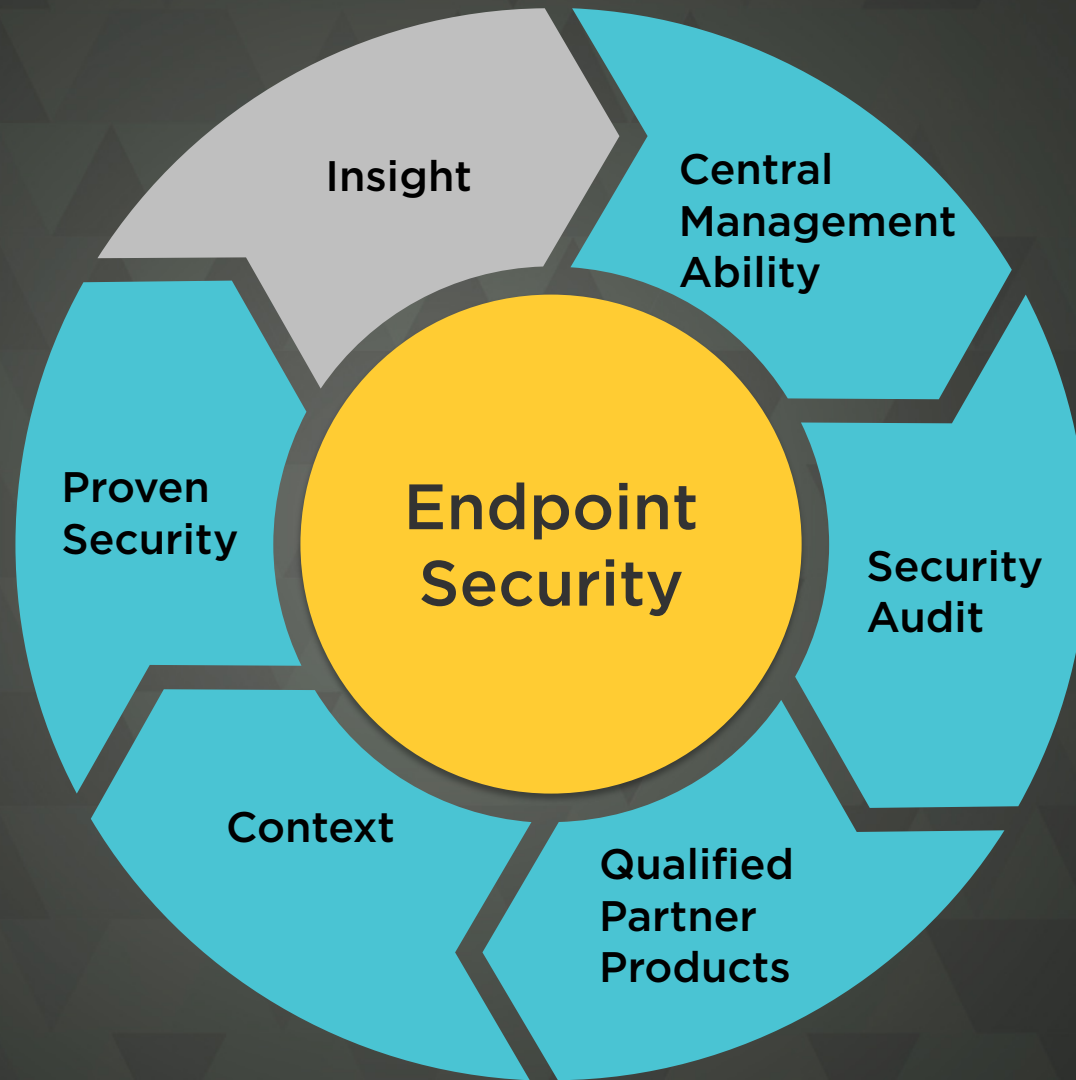
PROVEN Security



- Qualified high profile security companies
- First Penetration Test already available for:

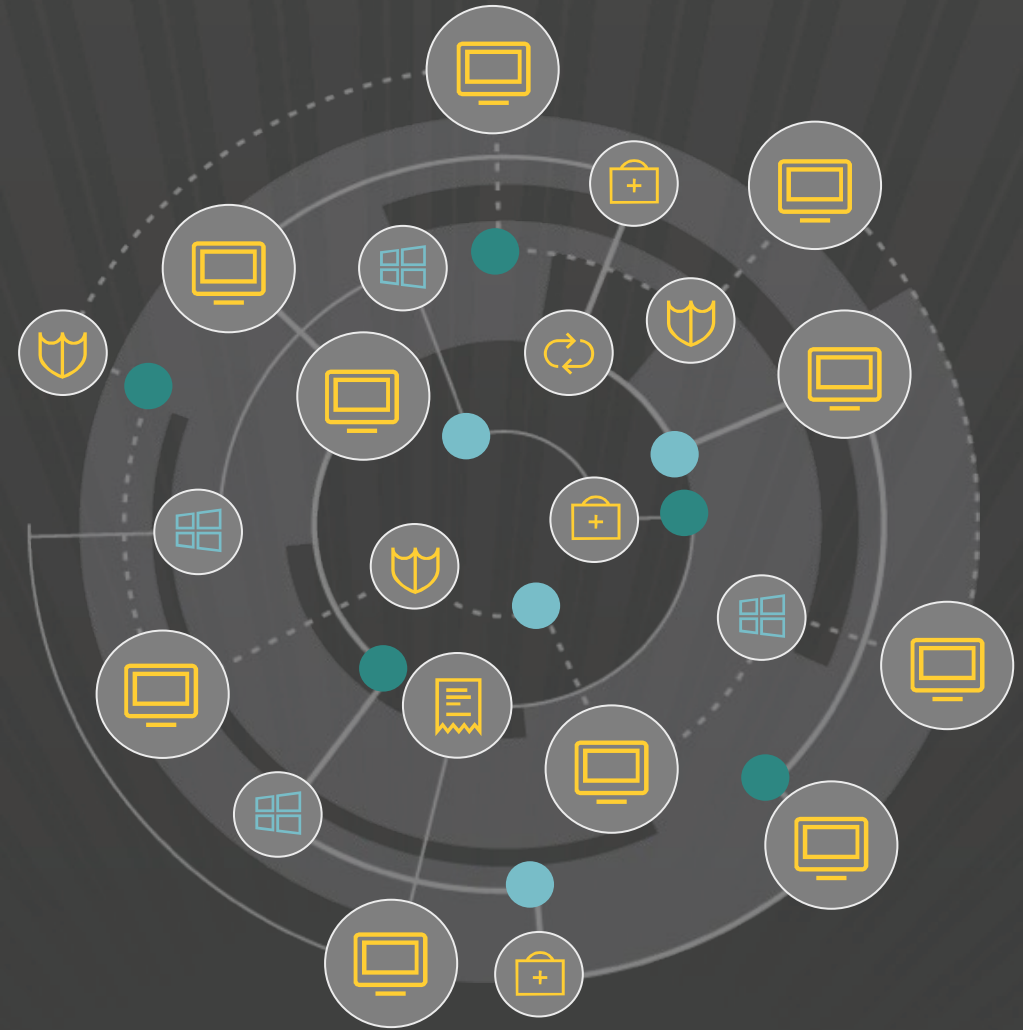


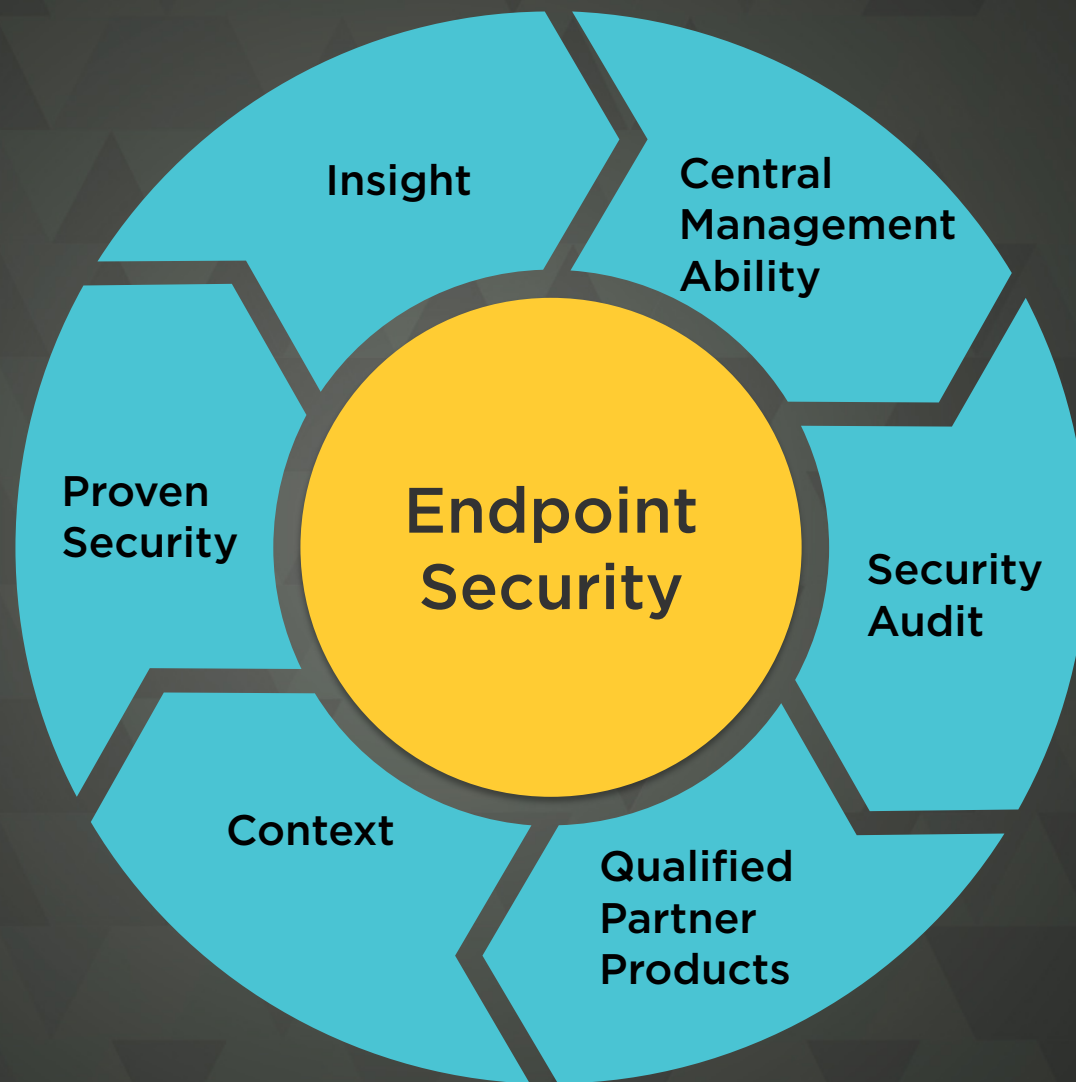
- Customers require independent reports on critical components
- Penetration test will be a permanent part of IGEL's QA



Insight

- Increased complexity
- Detailed information required E2E
- IGEL AIT helps on endpoint peripherals
- Integrated partner solutions (Lakeside Systrack)





MDM Essentials for UMS

Road Warriors



- Uses a company notebook and mobile phone
 - Both contain company data
 - Have access to company network
- Exposed to numerous threat scenarios
 - unsecured Hotspots
 - Theft
 - Loss
- Notebook is managed = secure
- Mobile phone not managed = unsecure

Enforce device policies

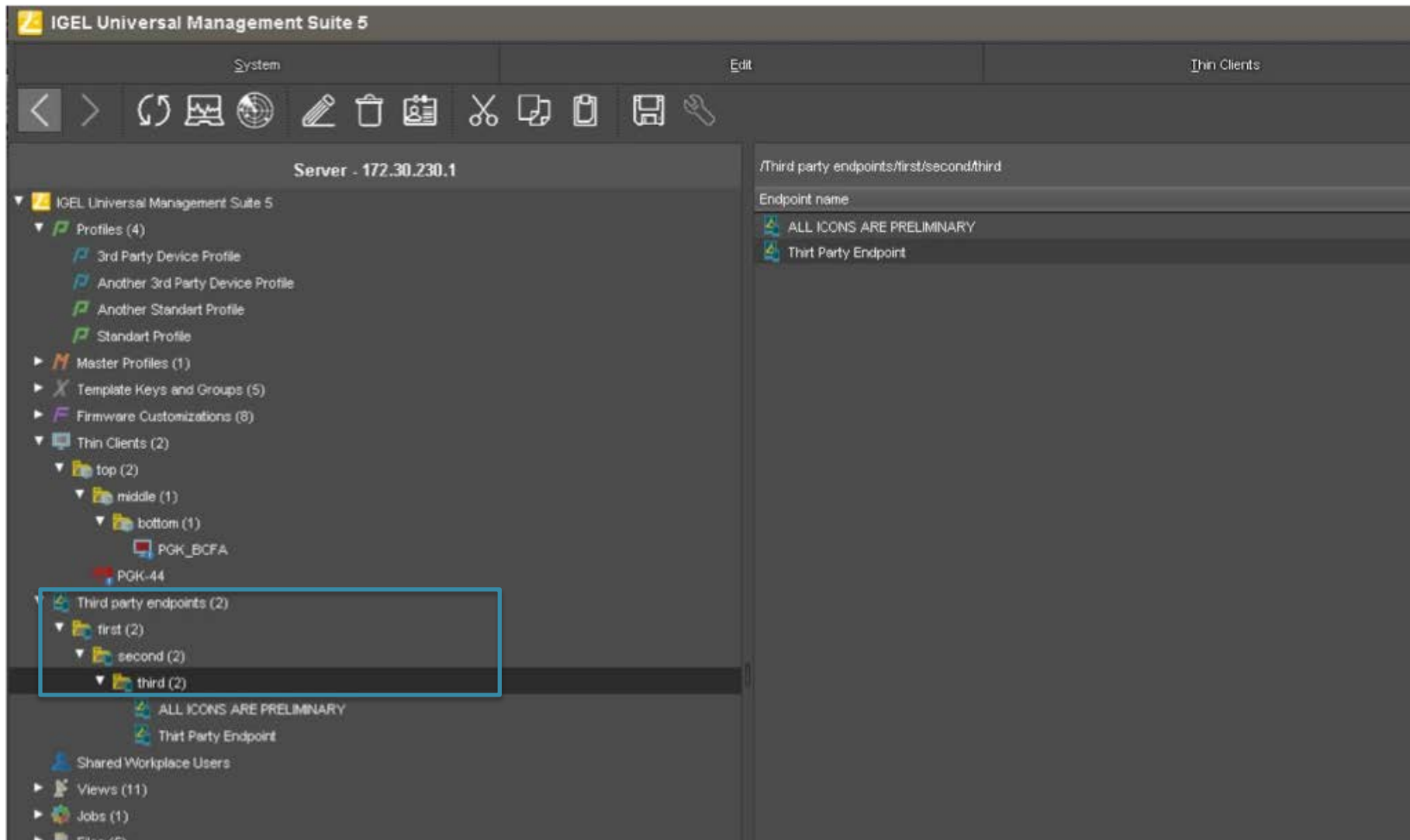


- Track all company's mobile assets in use
 - Bring Your Own Device
 - Chose Your Own Device
- Prevent data breach
 - Preconfigure WiFi connections
 - Disable camera while on company campus
 - Disable ports
 - Disable file transfer

The Solution



- Easy Mobile Device Management by IGEL
- Focuses on managing devices
- Target group:
 - customers already using the UMS
 - Small and medium businesses
- Works exactly like managing thin clients



Required IGEL Components



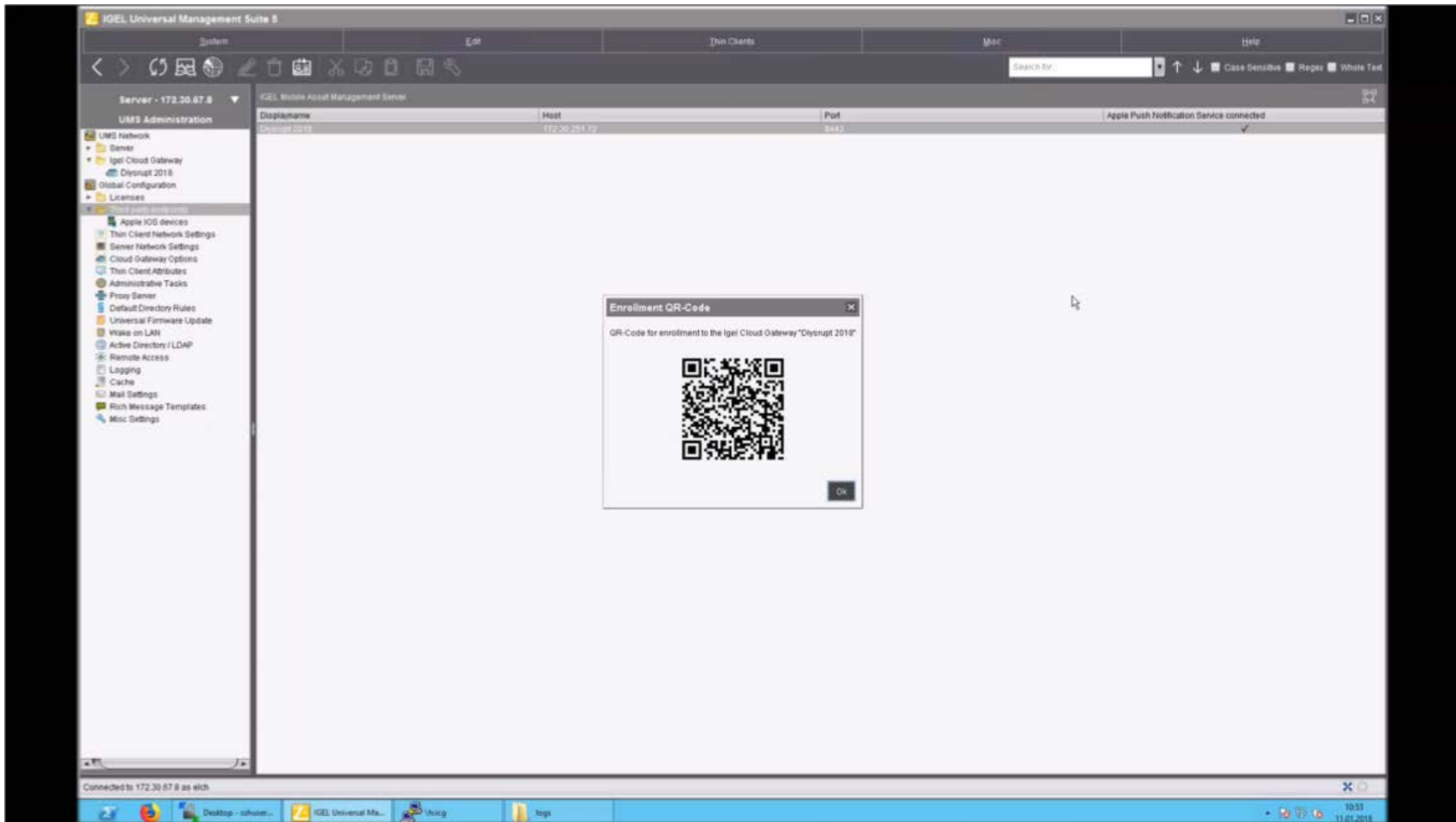
ICG

UMS

Release schedule



- Release planned for 2nd quarter 2018
- Available for iOS devices first
- Beta testing planned for end of February
- Support for Samsung planned



Asset Inventory Tracker

What is AIT?

- Tracks and stacks connected peripheral in the UMS:



Security

- Check security compliance is in place for USB sticks
- Log peripherals history
- Example
 - unauthorized Usage of USB Sticks
 - Help forensics to identify devices involved in possible data breach



Business continuity

- Quick replacement of broken devices
- Examples:
 - Signature pads at POS
 - Smartcard readers in hospitals



Theft protection

- Track portable peripherals
- Example
 - Call center headsets
 - Bluetooth connected devices



New functionality

Dashboard



Trigger



IGEL Cloud Gateway

Home Office use

- No touch deployment for initial setup
- Dedicated VPN solutions no longer necessary
- Problems with NAT limitations solved
- Enables AIT everywhere



Road Warriors

- Easy self service deployment of mobile workforce device
- Manage device anywhere and anytime as long as networkd is available
- Enforce policy changes company wide



MDM Essential for UMS

- Connects mobile device with UMS
- Manage and queue command(s) from UMS to mobile device(s)
- Informs Push Notification Service about new command(s)



New Feature - Proxy support



- Currently only available for Firmware Downloads
- With 5.08.100:
 - IGEL Cloud Gateway
 - Automatic License Deployment

New Feature - Secure Shadowing



- Enables helpdesk everywhere
- Same features as with traditional protocol
- ICG modification required
 - For tunneling data securely
 - Transfer data efficiently

High availability



- Required to scale on large deployments
- Required to enable high availability scenarios
- Easy load balancing via Round-Robin
- Use of 3rd party load balancers

Desktop as a Service

- IGEL portfolio already in good shape
- Additional clients required
- Security is key
- UDP/ UDC3 perfect fit
- UMS required to have a web interface
- Flexible licensing model required



Licensing

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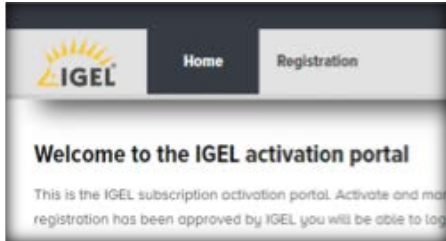
Easy licensing of UMA, UDC3, UD Pocket



- UDC2 already provided automatic license deployment in the past
- Today:
 - UMS = Easy Management
 - Deploying licenses is a complicated process
 - Managing Licensing = Sisyphus



The modern Sisyphus



← Activation Key

← MAC list 1
License file 1 →

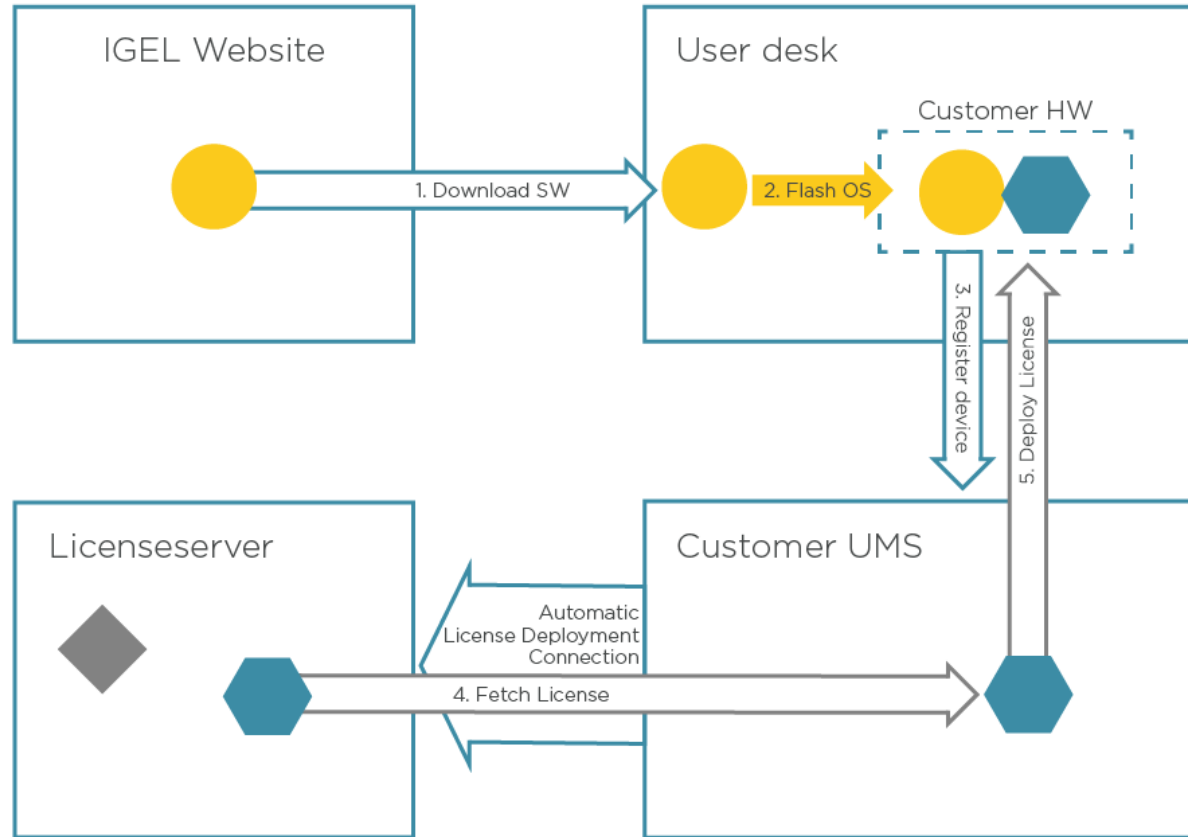
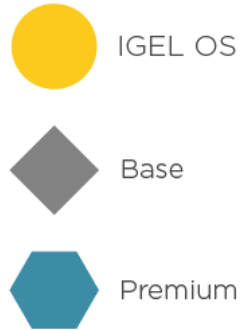
← MAC list 2
License file 2 →

← MAC list 3
License file 3 →

...



Deployment Process IGEL OS



IGELOS



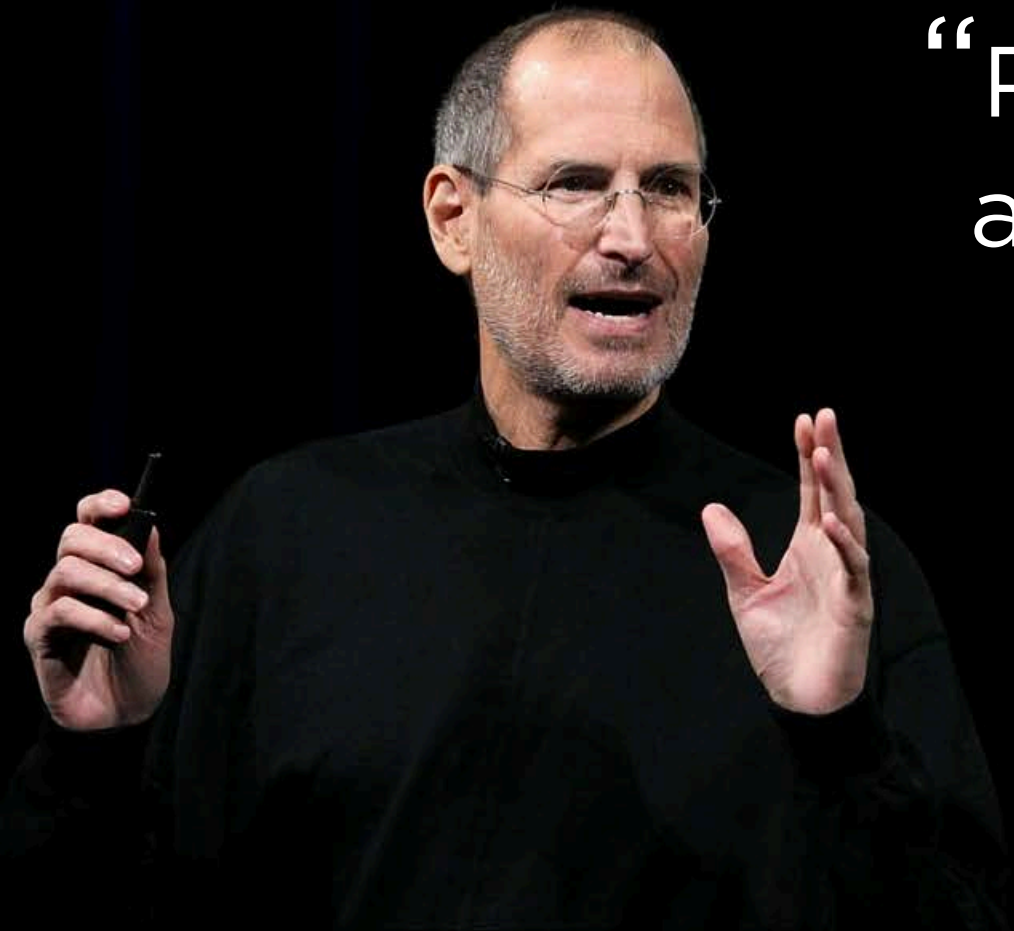
- License Portability
- Sell UMS Add-ons



IGEL SUITE

IGEL OS | ICG | IMI | UMA | AIT

Hardware



“People who are really serious about software should make their own hardware.”

- Alan Kay



Key facts

- Increased device performance
- Meets criteria for UC certification
- Connectivity stays the same



Specification changes

- Switch to AMD GX-424
- Quadcore 2.4 GHz CPU
- $\frac{3}{4}$ of UD5 performance



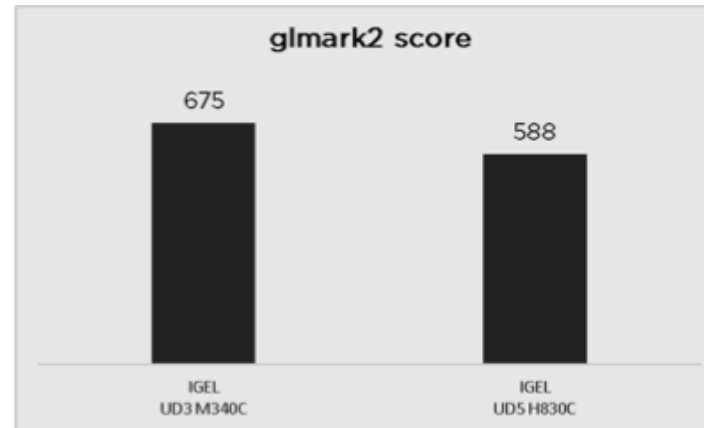
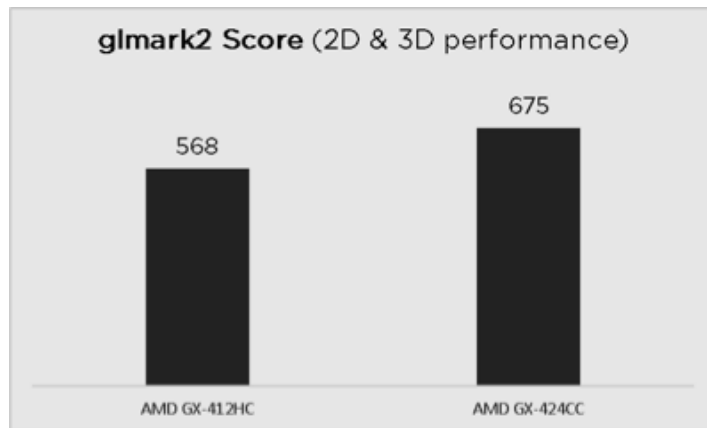
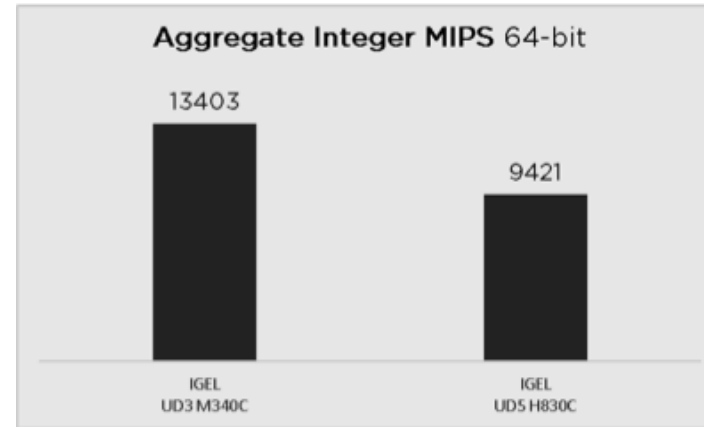
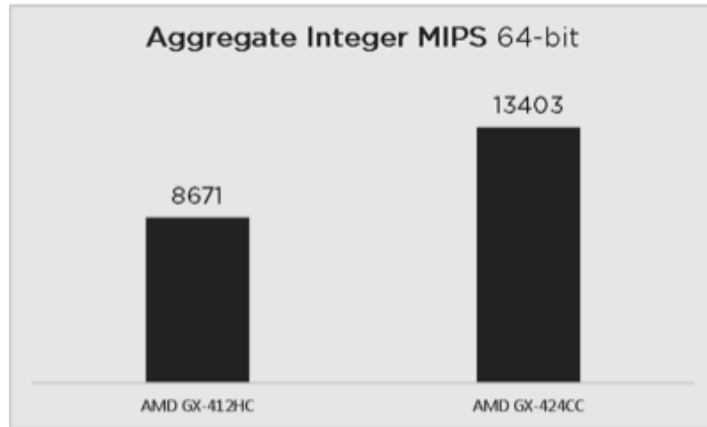
Timeline

- Available in end of February 2018



UD 3

Benchmark Results – Upcoming UD3





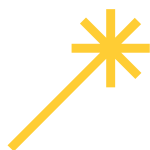
Key facts

- New top performance device
- Made for:
 - High resolution graphics
 - Multiple desktop access



Specifications

- AMD RX-216 GD DualCore 1.6 Ghz
- Radeon R5 GPU
- 2x 4K 60Hz DP, 1x 2K 60Hz DP
- Optional: 1x 2K 60Hz DP
- 2x USB 3.0 in front panel



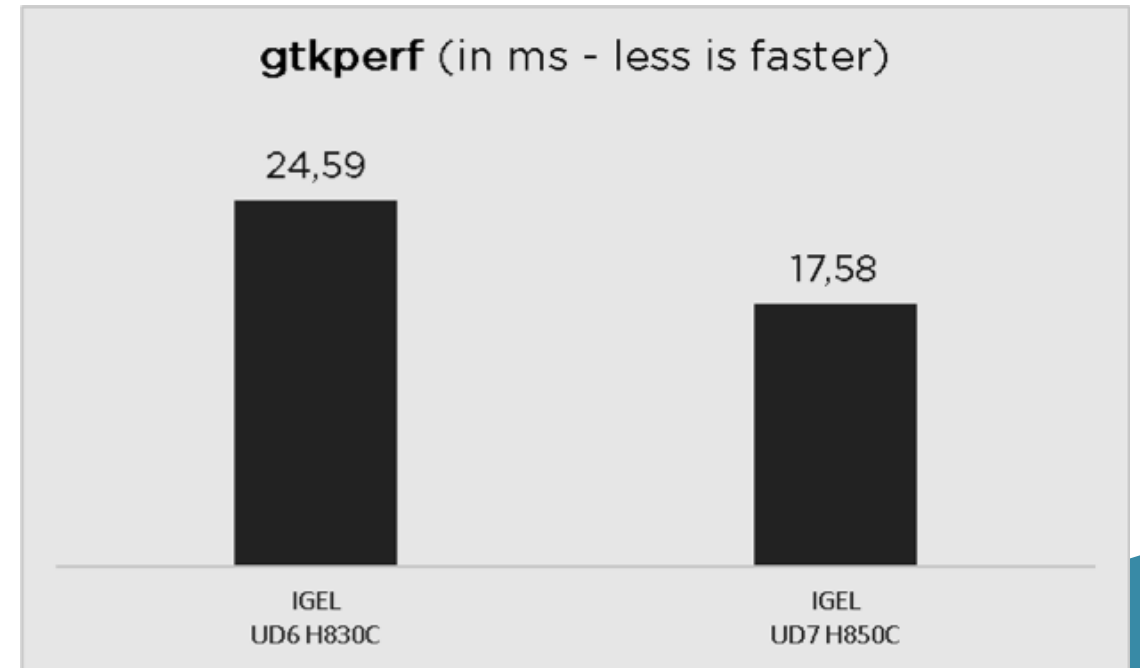
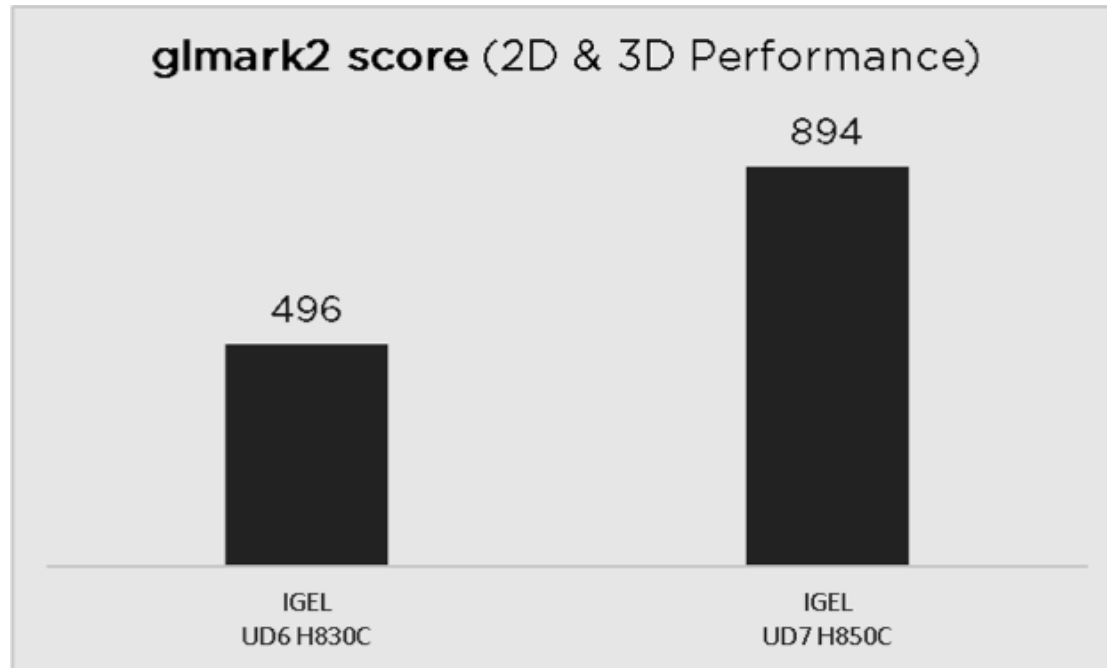
Timeline

- Availability end of Q1/18

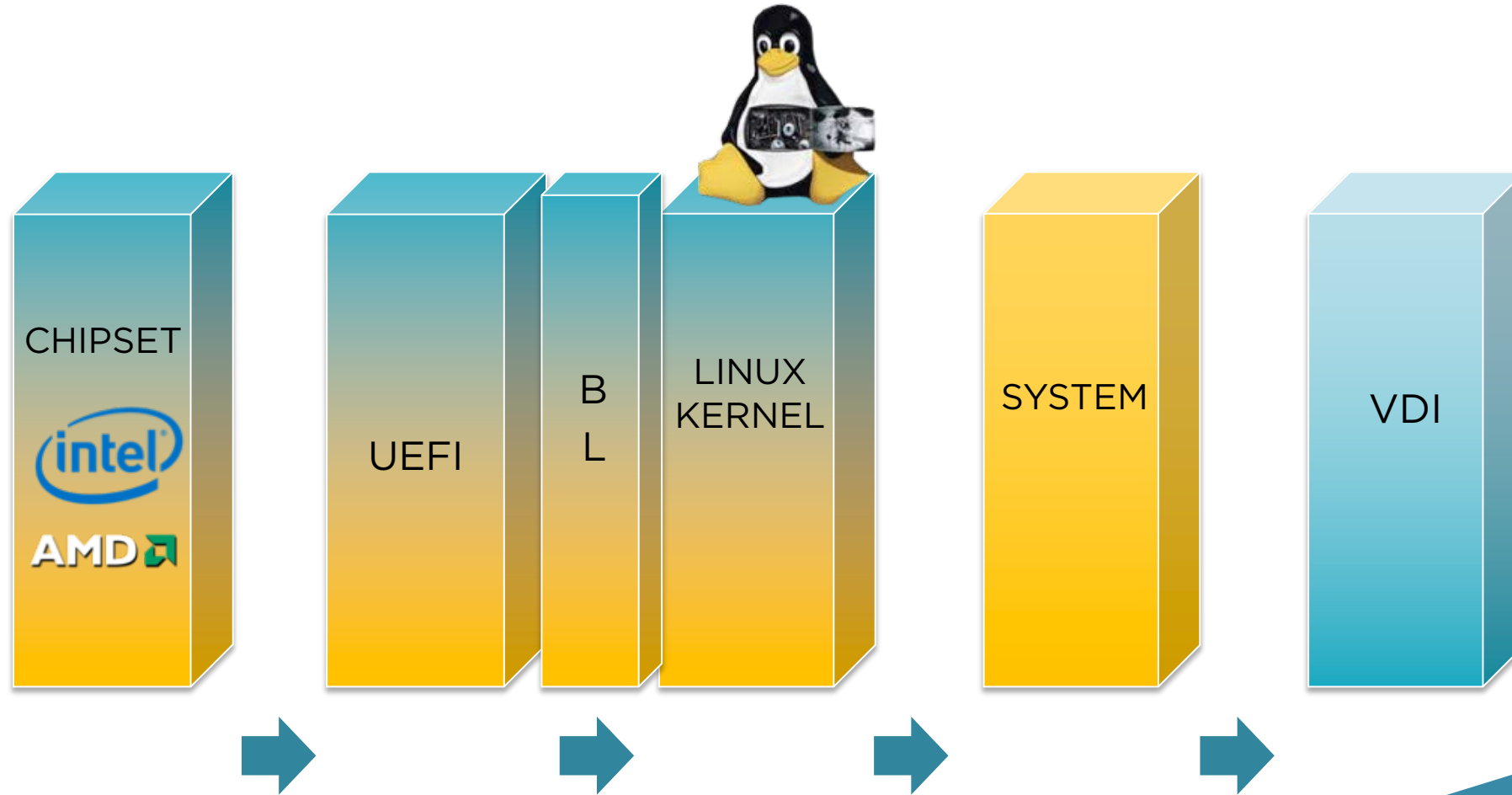


UD 7

Benchmark Results – Upcoming UD7



Hardware Secure Boot



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Thank You