IGEL Roadmap 2018

SOFTWARE / HARDWARE
Software
Unified communication:
- Jabra and Plantronics Headsets
- Cisco VXME 64 bit support
- Avaya / Unify integration under investigation

Security
- Enhance Endpoint Security
- Firefox Lockdown
- Secure Boot

UDP
- UD Pocket
  - New Form factors
  - USB-C

Partner Ecosystem
- Cherry Keyboard Encryption
- Lakeside Systrack support
- Devicetrust
- PrinterLogic implementation
Secure Boot - Mechanism
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
- Equipe every device with a rescue OS
- Snapshot any device with WIM format
Endpoint Security
IT business will be driven by **SECURITY** in 2018
How to mitigate the security issues?

1. Disable Threatend Functionality Until patches available
2. Patches need to be available
3. Patches need to be deployed
4. Enforce Policies to Prevent Security threats

Central management is key to deploy patches and enforce security policies
Endpoint Security

Central Management Ability

- Insight
- Proven Security
- Context
- Qualified Partner Products
- Security Audit
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 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
Endpoint Security

- Insight
- Central Management Ability
- Security Audit
- Qualified Partner Products
- Proven Security
- Context

Endpoint Security
Contextual Configuration

UMS DEVICE POLICY

DEVICE
PERSONA
CONTEXT
Endpoint Security

- Central Management Ability
- Security Audit
- Qualified Partner Products
- Context
- Proven Security
- Insight
PROVEN Security

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

• Release planned for 2\textsuperscript{nd} 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 n 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
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

1. Download SW
2. Flash OS
3. Register device
4. Fetch License
5. Deploy License
IGEL OS

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
- ¾ of UD5 performance

Timeline
- Available in end of February 2018
Benchmark Results – Upcoming UD3

**Aggregate Integer MIPS 64-bit**

- AMD GC421HC: 8671
- AMD GC424HC: 13403

**glmark2 Score (2D & 3D performance)**

- AMD GC421HC: 568
- AMD GC424HC: 675

**Aggregate Integer MIPS 64-bit**

- IGEL UD3-M418DC: 13403
- IGEL UD5-M818DC: 9421

**glmark2 score**

- IGEL UD3-M418DC: 675
- IGEL UD5-M818DC: 588
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
Benchmark Results – Upcoming UD7

**glmark2 score** (2D & 3D Performance)

- IGEL UD6 H830C: 496
- IGEL UD7 H850C: 894

**gtkperf** (in ms - less is faster)

- IGEL UD6 H830C: 24.59
- IGEL UD7 H850C: 17.58
Hardware Secure Boot

CHIPSET

UEFI

BL

LINUX KERNEL

SYSTEM

VDI