DeviceOn

Introduction

Advantech DeviceOn is a remote device management platform designed for efficient deployment, monitoring, and maintenance at scale. It reduces on-site workload by offering centralized control over all connected devices.

In addition to core management, DeviceOn includes practical troubleshooting tools such as remote desktop, log access, event tracking, and alert notifications—helping teams quickly resolve issues and minimize downtime. It also supports remote OS updates, ensuring devices stay current and secure.

Built by Advantech's in-house teams and tightly integrated with Advantech hardware, DeviceOn delivers strong compatibility, system reliability, and long-term support through a fully vertically integrated design.

Key Functions

Device Provisioning

Device Onboarding
- Support Windows, Linux, Android
- Quick device enrollment process
- Full User Permission Management

Device Staging
- OS/System Auto Configuration
- Software/peripheral watchlist
- Automatic software provisioning

Device Updating
- Secure file transfer
- Manage and update software
- Android OS upgrades

Device Management

Monitoring & Notifications
- Connection & hardware status
- Software & peripheral status
- Device Abnormal Event Alerts
- Abnormal Event Management

Remote Control & Recovery
- Reboot & Power controls
- Audio & Backlight settings
- Screenshots & Remote Desktop
- Remote SSH (Ubuntu)

Device Security
- Software install/update history
- Device auto lock to protect data
- App install/uninstall policy
- Device usage restriction settings

Service & Specifications

Function List	Windows	Android	Linux(Ubuntu)	Builder	Manager
	10, 11	8+	20.04+	Only available on SaaS	
Profile – OS Settings (KIOSK Mode, others are OS dependent)	✓	✓		✓	✓
Profile – Alarm Rules, Software & Peripheral Monitoring, Task Schedule	✓	✓	✓	✓	✓
Profile – Device Security (Auto Lock, app install policy)		✓		✓	✓
OTA – Update Operating System		✓		✓	✓
OTA – Manage Installation Packs, Remote App Installation, Script Deployment & Execution	✓	✓	✓	✓	✓
OTA – Synchronized File Transfer to Multiple Endpoints	✓		✓	✓	✓
OTA – Remotely Download 3rd-party Application Logs	✓	✓	✓		✓
Monitoring – Hardware Status (CPU/RAM/Storage/Battery)	✓	✓	✓		✓
Monitoring – Software Status (Running Status/CPU & Memory Usage)	✓	✓	✓		✓
Monitoring – Advanced Battery Management [Specific Battery Models]	✓				✓
Monitoring – Peripherals & Display (Connection Status) [USB Only]	✓	✓	✓		✓
Control – Adjust Volume & Backlight, Screenshot, Reboot & Shutdown	✓	✓	✓		✓
Control – Download System Log and Network Information		✓			✓
Control – Remote Desktop	✓	✓	✓		✓
Control – Remote SSH			✓		✓
User Management – Manage User-accessible Feature Permissions	✓	✓	✓	✓	✓
User Management – Manage User Device Management Permissions	✓	✓	✓	✓	✓

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Server Security Enhancements
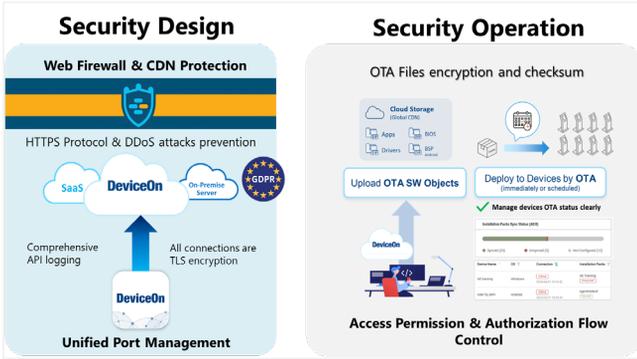
DeviceOn prioritizes information security. The server incorporates the following features to enhance protection:

- Supports only TLS 1.2 and TLS 1.3 protocols, removing older, insecure versions.

- Utilizes dual-network separation, with all connections centrally managed through a secure proxy server.

- Provides end-to-end encrypted transmission for OTA file transfers, API communications, and remote control operations.

- Records all connection activities for comprehensive analysis and auditing.

Ordering Information

Ordering P/N	Product	Cloud(Server) Type	Description
36CSDOISSASP01	Device Subscription	SaaS Cloud	Annual Cloud Service for 1 device (365 days)
36CSDOISSASP03	Data Traffic	SaaS Cloud	Recharge with around 240GB more data traffic
36CSDOISPSRP01	Device License	On-Premise Server	Perpetual License for 1 device
36CSDOISPSRP02	Server License	On-Premise Server	Server Activation License (valid for 1 server installation - including 2-year software warranty)
36CSDOISPSRP03	Extended Warranty	On-Premise Server	Annual Maintenance & Upgrade Fee (beyond the standard 2-year warranty)