**Client OS Comparison**

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|  | Task Description | Windows (Commercial) | Linux Variant (Free & Commercial OS) | Mac OS (Commercial) |
| 1 | OS Availability | Commercial Only | FREE & Commercial | Commercial Only |
| 2 | Base OS type | Windows Platform | Linux Platform | Unix Platform (Unix Foundation Layer) |
| 3 | Enterprise Grading | Enterprise Ready | Home & SOHO | Home & SOHO |
| 4 | Driver Package | All support for all Intel & AMD based laptops. Runs on all types of IBM Clones | System Hardware Dependent, not being able to run on every PC. | Only Runs on it’s Hardware, except in VM |
| 5 | Software Packaged | Platform Support | Service Absent | Service Absent |
| 6 | Software Patching | Platform Support | Community Platform Support, No RoadMap or Timed Delivery | Platform Support |
| 7 | Software Signing | Digitally Signed | Generic | Digitally Signed |
| 8 | Streaming Server | Platform Support | Service Absent | Platform Support |
| 9 | Web Application Firewall Server | Platform Integrated | Service Absent | Service Absent |
| 10 | Application Security | Platform Integrated | Service Absent | Service Absent |
| 11 | ITIL Compliant | Compliant | Service Absent | Service Absent |
| 12 | DLP Complaint | Platform Integrated | Service Absent | Service Absent |
| 13 | Domain Handler | Platform Support | Very Limited Platform Support per Variant, Some Cannot be Added to a Domain | Limited Support |
| 14 | Software Built for OS – App. Support | 89% of all Registered software’s are made for Windows | 1% for Linux Variants, does not even runs on all Linux variants | 10% for Mac |
| 15 | DevOps Support | Platform Integrated | Service Absent, Community Based per Application Support, Uncontrolled | Service Absent |
| 16 | HW Built for OS | Desktop, Laptop, Tab, Mobile, Tab, ATM, POS | Desktop & Laptop Only | Desktop, Laptop, Mobile, Tab Only |
| 17 | Domain Based Printing Support | Platform Integrated | Generic Drivers for all, Reduces Operating Efficiency and Security | Platform Integrated |
| 18 | Predictive AI Engine (User Experience Cache) | Platform Integrated | Service Absent | Service Absent |
| 19 | Rights Management | Platform Support | Self Only/Per User, not Enterprise Ready | Self Only/Per User, not Enterprise Ready |
| 20 | Privileged Account Management | Platform Support | Service Absent | Service Absent |
| 21 | Identity Governance & Administration | Platform Integrated | Service Absent | Service Absent |
| 22 | IT Operations Management | Platform Integrated | Service Absent | Service Absent |
| 23 | Unified Communication | Platform Integrated | Service Absent | Service Absent, except for Microsoft Skype for Business for Mac. All services are deployed by MS during SFB installation |
| 24 | Cloud Readiness, Public & Private | Platform Integrated | Service Absent | Service Absent |
| 25 | Secure Configuration Management | Platform Integrated | Service Absent | Service Absent |
| 26 | Disrupt Data Breach Services | Platform Integrated | Service Absent | Service Absent |
| 27 | Enterprise Cryptography Services | Platform Integrated | Service Absent | Service Absent |
| 28 | Office Productivity | Platform Integrated | AUIS, Siag, Interleaf, Aster\*x, Zoho, LibreOfficeApache OpenOffice, WPS Office, YoZo, SoftMaker, Polaris, G Suite, Ability Office, Breadbox, Easy Office, Framework, Gobe Productive Etc. | NeoOffice, iWork, MarinerPak, Microsoft Office |
| 29 | Online Productivity Tools: through free account | Outlook, Word, Excel, PowerPoint, OneNote, OneDrive | Service Absent | Service Absent |
| 30 | Desktop Experience | Platform Integrated | Service Absent | Platform Integrated, not device Independent. Only some certified HW can access this service like TouchPad/DrawPad |
| 31 | Desktop Optimization | Platform Integrated | Service Absent | Cannot be controlled by Policy |
| 32 | Smart Card Authentication/2FA/MFA | Platform Integrated | Service Absent | Service Absent |
| 33 | FingerPrint Enrollment | Platform Integrated | Service Absent | Service Absent for PC’s, Present in Mobile devices Like Smart Phone & Tab |
| 34 | PIN Login/Enrollment | Platform Integrated | Service Absent | Service Absent |
| 35 | Personal Voice Assistant | Cortana | Service Absent | Siri |
| 36 | Professional Video Rendering Engine | Platform Integrated | Service Absent | Platform Integrated |
| 37 | VR Engine | Platform Support | Service Absent | Platform Integrated |
| 38 | Hardware Upgrade | PnP Platform Support | Somewhat Existent | Somewhat Existent |
| 39 | Peripheral Upgrade | Platform Support | Simulates Generic Driver Sets, which degrades device performance | Service Absent |
| 40 | Video Editing | Platform Support by Vendor Direct | Very Primitive & Basic Architecture Support, cannot integrate to Video Stations | Platform Support, only built for this OS |
| 41 | Audio Editing | Platform Support by Vendor Direct | Very Primitive & Basic Architecture Support, cannot integrate to Audio Stations | Platform Support, only built for this OS |
| 42 | AV Hardware Acceleration | Platform Integrated | Service Absent | Platform Integrated |
| 43 | Data Center Bridging (DCB) | Platform Integrated | Service Absent | Service Absent |
| 44 | IP Address Management | Platform Integrated | Service Absent | Service Absent |
| 45 | Virtual Receive Side Scaling (vRSS) | Platform Integrated | Unknown | Unknown |
| 46 | Policy Implementation | Platform Integrated | Service Absent | Service Absent |
| 47 | Encrypted Communication | Platform Integrated | Platform Independent, cannot integrate to any central controller | Service Absent |
| 48 | Disk Encryption | Platform Support with TPM | Service Absent | Service Absent |
| 49 | Reference Imaging | Platform Support (HAL) | Service Absent – Kernel Panics | Service Absent |
| 50 | Enterprise Architecture Framework Support | Platform Support | Service Absent | Service Absent |
| 51 | Integration to Portal Services (Company Portal/Apps) | Platform Integrated | Service Absent | Somewhat Existent |
| 52 | Collaboration Engine | Platform Support | Web Only | Web Only |
| 53 | User Productivity | WorldWide acceptance | Very Limited, only preferred by some group of technical, not generic users | Very Limited, only preferred by a group of generic users & some AV professionals |
| 54 | Sync Across Devices | Platform Support | Service Absent | Platform Support for own devices, not manageable by policy |
| 55 | APT Threat Handler | Platform Support | Service Absent | Service Absent |
| 56 | Integrated Anti Viral System | Platform Integrated | Service Absent | Service Absent |
| 57 | Connectors for Major Online Services like SAP/AWS/Azure | Platform Support | Service Absent by Manufacturer. Support Provided by individual company/contributor | Service Absent by Manufacturer. Support Provided by individual company/contributor |
| 58 | Administration Cost Enterprise-Wide | Centralized & Minimum | Multiple Levels of Scripters and Admins Required | Service Absent |
| 59 | Scalability and Performance | Enterprise Grade | SOHO User Grade | SOHO User Grade |
| 60 | Enhanced Distributed Services with Active Directory standards-based security, and centralized management tools. | Platform Integrated | Service Absent | Service Absent |
| 61 | Enhanced reliability and availability via Dfs, Enhanced Clustering Services, and reduction in reboots. | Platform Integrated | Service Absent | Service Absent |
| 62 | Enhanced scalability via symmetric multiprocessing (SMP), network load balancing, and Extended Memory Architecture. | Platform Integrated | Service Absent | Extended Memory Architecture exists |
| 63 | Security Information & Event Management | Platform Integrated | Service Absent | Service Absent |
| 64 | OS Integrated Experience (e.g. Hotmail, Yahoo, Gmail) | Platform Integrated | Service Absent | Service Absent |
| 65 | Login using Face Recognition | Platform Integrated | Service Absent | Service Absent |
| 66 | Presence, IM, Chat | Platform Integrated | Service Absent | Platform Integrated |
| 67 | Asset Management | Platform Integrated | Service Absent | Service Absent |
| 68 | Disaster Recovery (HAL) | Platform Integrated | Service Absent | Service Absent |
| 69 | Automatic Backup to Multiple Locations, including LAN/WAN/Cloud | Platform Integrated | Service Absent | Platform Integrated |
| 70 | Native PDF Support | Platform Integrated | Service Absent | Platform Integrated |
| 71 | IPMI 2.0 Compliancy | Platform Integrated | Service Absent | Service Absent |
| 72 | Active Virtualization Support for Vt-d and Vt-x for Direct I/O | Platform Integrated | Somewhat Supported | Somewhat Supported |
| 73 | CPU XD, OS Support | Platform Integrated | Service Absent | Service Absent |
| 74 | Intel SpeedStep OS Support | Platform Integrated | Service Absent | Service Absent |
| 75 | IT Service Management | Platform Integrated | Service Absent | Service Absent |
| 76 | Manufacturer Support | Full Support, nothing is free | No Support, community based, except for commercial | Full Support, nothing is free |
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**Recommendation for Enterprise:** Windows 10 Professional or Enterprise