# Huawei VDI (Virtual Desktop Infrastructure) Solution

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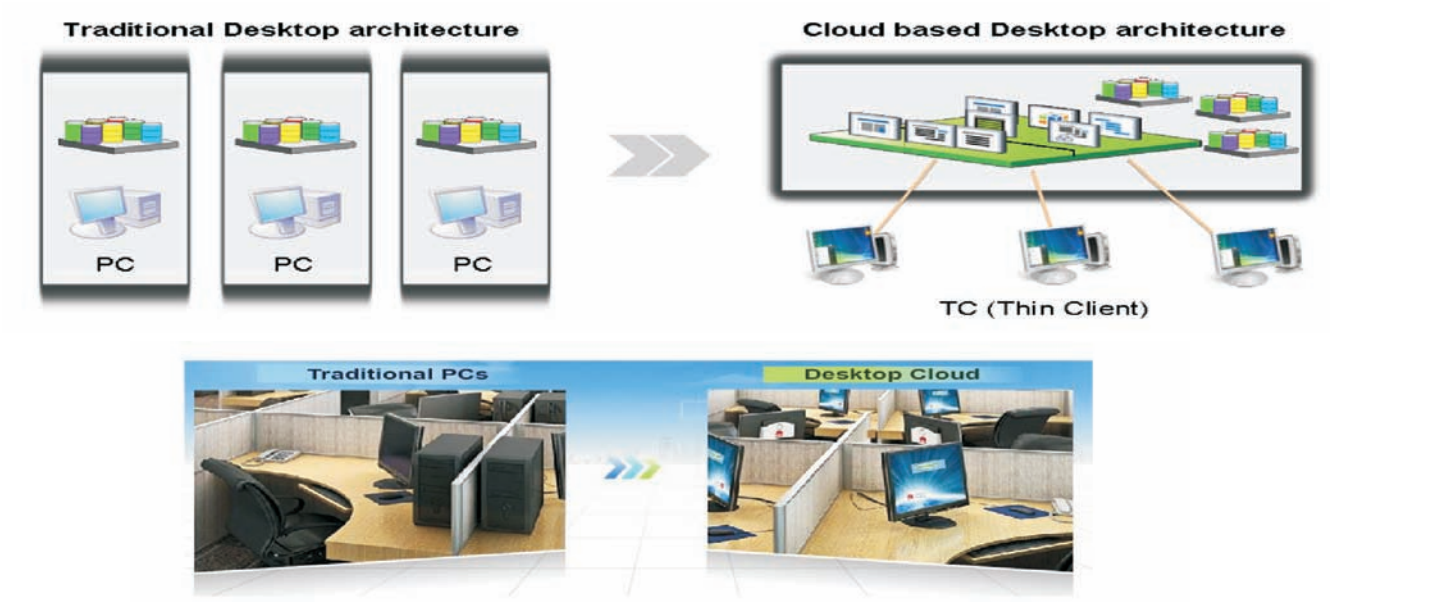Shenzhen 518129,P.R.China
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## Overview

The Huawei VDI solution offers maximally shared computing resources and on-demand resource management. This solution virtualizes and centralizes the computing and storage resources (including CPU, hard drive, and memory) of PCs into a cloud computing data center so that end users can access their own "virtual PCs" using monitors and thin clients (Tcs).



## Customer Benefits

- Eliminate PC information security problems from worms, Trojan horses, and malicious data interception.
- Reduces PC TCO by 1/4 to 1/3.
- Revolutionizes PC maintenance by liberating help desk from repeated, low-value work.
- Simplify IT asset management processes and improve management effeciency.
- Builds a new IT infrastructure platform and gather experience for subsequent IT resource consolidation and service innovations.

### Best practice:World's largest commercial case of VDI



- Scale: 60K persons (Phase I of 10K completed)
- Scope: all R&D institutes globally

| | Traditional Data Center | Cloud Computing Data Center | Effectiveness |
|---|---|---|---|
| Initial investment | 100 servers + 10,000 PCs | 390 servers + 10,000 TCs | 40% CapEx saving |
| Power consumption | 78 MW | 22 MW | 71% less |
| CPU usage | < 5% | > 60% | 12-fold |
| Hardware deployment time | > 3 months | < 1 week | 92% less |
| Maintenance efficiency | < 10 nodes/person | > 1000 nodes/person | 100-fold |

## Application Scenarios of VDI

| Industry | Application Scenario | Requirement Description | Huawei Solution | Target Department |
|---|---|---|---|---|
| Government/ Military/Police | Intranet, Internet, and secrete-involved network | Good management, strong security, and easy maintenance of storage media | ● Special USB control and audit <br> ● End-to-end security <br> ● Mature, large-scale commercial deployment and maintenance | High-level manager; security department; technology department |
| Government | Administration service hall | ● Support for a large number of peripherals <br> ● Ease-of-maintenance <br> ● Energy conservation and emission reduction | ● Compatibility with 95% of the industry's common peripherals <br> ● Mature and large-scale commercial deployment experience <br> ● Energy efficiency design with 20% lower than normal industry solutions | Maintenance department; Administration department |
| Education. | Laboratory room | ● Low cost <br> ● Low energy consumption <br> ● Ease-of-maintenance | ● End-to-end platform, reduces TCO and later investment in IT platforms <br> ● Energy consumption with 20% lower than normal industry solutions <br> ● Mature and large-scale commercial deployment experience | Computer center |
| Enterprise | R&D department | ● Security <br> ● Ease-of-maintenance <br> ● Low energy consumption <br> ● Low TCO | ● Complete security system and experience <br> ● Mature and large-scale commercial deployment experience <br> ● Energy efficiency design with 20% lower than normal industry solutions <br> ● 20% lower TCO in 5 years than normal industry solutions | R&D management department; IT department |
| Enterprise | NOC | ● High-quality voice <br> ● Low energy consumption <br> ● Ease-of-maintenance <br> ● Quick deployment | ● Industry-leading voice design and practices <br> ● Energy efficiency design with 20% lower than normal industry solutions <br> ● Mature and large-scale commercial deployment experience <br> ● Quick and large-scale delivery | Business department; IT department |
| Finance/ Electric Power | Call Center | ● High-quality voice <br> ● Low energy consumption <br> ● Ease-of-maintenance <br> ● Quick deployment | ● Industry-leading voice designs and practices <br> ● Energy efficiency design with 20% lower than normal industry solutions <br> ● Mature and large-scale commercial deployment experience <br> ● Quick and large-scale delivery | Business management department; IT equipment |
| Electric power/ Energy | Business hall | ● Support for a large number of peripherals <br> ● Ease-of-maintenance <br> ● Energy conservation and emission reduction | ● Compatibility with 95% of the industry's common peripherals <br> ● Mature and large-scale commercial deployment experience <br> ● Energy efficiency design with 20% lower than normal industry solutions | IT department |
| Healthcare | Hospital | ● Information sharing <br> ● Ease-of-maintenance <br> ● Security | ● Efficient information sharing platform for different doctors, hospitals, and health management institutions <br> ● Mature and large-scale commercial deployment experience <br> ● End-to-end security solution and practices | High-level manager; IT department |
| Airport | Information release | Information display | ● Break-resistant and dust-proof designs <br> ● Remote maintenance system | O&M department |
| Broadcast television | Office | ● Low-cost and large -capacity storage <br> ● Parallel processing | ● SOD dramatically reduces storage costs <br> ● Proven efficient parallel processing capabilities | Equipment running department |

## Success Stories

Huawei, Zhejiang Mobile, Shanghai Unicom, Shanghai Government, Ministry of Public Security, Shanghai Zhabei Healthcare, UAE's Ministry of Interior