



# Hanford Federal Cloud



As the infrastructure support services provider for the Hanford Site, Mission Support Alliance, in partnership with Department of Energy (DOE), continues to deploy industry-recognized best practices to improve service delivery and reduce operating costs. Cloud computing is an example of technology being applied at the Hanford Site for increased results. In November 2011, the Richland Operations Office became the first tenant on the Hanford Federal Cloud, known as HFCloud, and is leading the transformation for Hanford and other Environmental Management field offices nationwide.

So what is HFCloud? It is a private cloud providing federal users and contractors access to secured information. This is done from computers on the Hanford campus or remotely through the Internet, no longer requiring direct connections to hardware to access information.

From a broader perspective, it's IT infrastructure convergence and shared services. Information is no longer stored or processed on personal computers, but is hosted on the HFCloud. This results in improved services to end users while providing global cost savings and environmental benefits to the government such as:

- Centralized and consolidated data centers
- Reduction in energy consumption at the desktop by replacing CPUs with Thin Client technology
- Cost savings on computer hardware and software
- Improved cyber security posture with data stored in central location, not individual user hardware.

With the migration of 650 computer users to the cloud at DOE's Richland Operations Office, numerous benefits will be realized:

- \$1M in reduced monthly service rates
- Additional cost avoidance and reductions on computer hardware and software refresh and maintenance
- Green IT leveraging VoIP (Voice over Internet Protocol) and Thin Client technology that use 80% less power
- A system that is readily scalable to thousands of users
- Seamless business continuity and disaster recovery capabilities
- Tablet PC integration to Windows Desktop
- Wi-Fi capability for both secure access and guest network connectivity
- Over 10,000 VoIP phones across 600 facilities including integration to the 911 public safety answering point system
- VoIP and Thin Clients delivered over WiMAX and wireless services reducing the need for hard lines
- Integrated emergency notification (reverse 911) leveraging computer messaging and VoIP voice paging capabilities
- Cyber security exceeds federal requirements
- Consistent user experience both at work and while telecommuting
- Multiple operating systems supported with over 170 virtualized applications to meet user specific needs.

