Authenticate and control print across multiple levels of security networks

HP Secure Multiple Network Printing

What if you could…

- Consolidate your printer infrastructure?
- Define, manage, and prioritize multiple transfer paths?
- Simplify your printer management?
- Attain a repeatable, stable, supportable solution (each system is identical)?

Consolidate print infrastructure using shared printer networks

Organizations everywhere are cutting costs, saving time and resources, and eliminating administrative headaches simply by consolidating their print infrastructures. But for an environment that includes multiple-user networks of different classifications—where security is critical—consolidation may be anything but simple. You have to maintain acceptable levels of data separation, ensure the confidentiality of printer output, and track accountability.

HP Secure Multiple Network Printing makes it possible to gain nearly all the benefits of a shared print infrastructure and printer fleet—without compromising data integrity or confidentiality restrictions.

Get the security and accreditation your environment demands

HP Secure Multiple Network Printing enables the automatic and unattended transfer of print jobs using ITSEC E6 and Common Criteria

EAL-7 evaluated data diode, and associated communications software. The data diode provides a hardware-enforced one-way connection between the air-gapped networks. The operating system installed on each of the solution's servers is hardened, only including the components required for functionality.[1]

The ITSEC E6 and CC EAL-7 evaluated diode components and industry-standard servers are configured and installed to your agency's specific requirements. This can reduce testing, acceptance, and accreditation costs when multiple systems are needed.
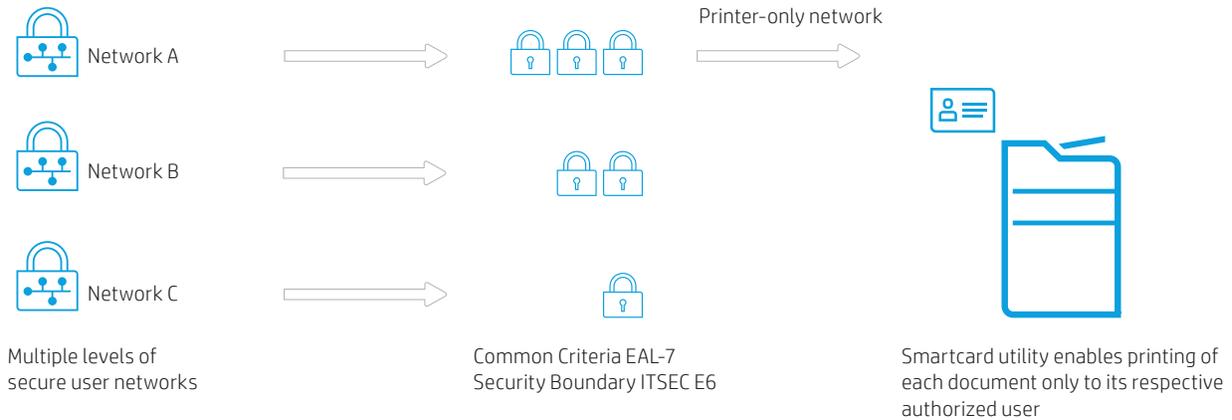
Provide a seamless, improved user experience

With HP Secure Multiple Network Printing, users are no longer confined to using only those printers assigned to their network. Instead, print jobs are transferred seamlessly from their home networks to a dedicated secure print network, allowing them to retrieve print jobs when and where it's most convenient.

Here's how it works. A user logged onto a home network sends a job to print as usual (including selecting any required job characteristics like number of copies or orientation), and the document is entered into the default print

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Network A

Network B

Network C

Printer-only network

Multiple levels of
secure user networks

Common Criteria EAL-7
Security Boundary ITSEC E6

Smartcard utility enables printing of
each document only to its respective
authorized user

Consolidate printer and print management infrastructures without sacrificing network separation, user confidentiality, or accountability. With HP Secure Multiple Network Printing[2] you can help meet the requirements of your agency and your network users—all while maintaining high levels of security provided by air-gapped networks.

queue on the home network. Authentication and pull-printing help keep the document safe until the user is ready to pick it up (and eliminate the waste and possible security breach of forgotten print jobs).

When ready to pick up a print job, the user walks up to a convenient printer, authenticates using a badge, selects the appropriate document from the display, and collects the printout. All characteristics of the print job are retained, making the entire process simple and transparent.

Reduce admin time with full configuration capabilities

HP Secure Multiple Network Printing is configured to accept print jobs on a specified port on the user network, transferring them automatically across the data diode, and sending them to a print queue on the print network.

The gateway is fully configurable. System administrators can change port and queue names, and turn auditing, logging, and optional content checking and anti-virus scanning on and off as needed. Once configured, the system operates like an appliance, with no need for day-to-day system management or administration. This efficiency, coupled with a more consolidated printer fleet to maintain, can reduce printer administration chores and expenses.

Deploy and scale with minimal disruption

HP Secure Multiple Network Printing integrates easily into existing heterogeneous environments. It requires minimal change to your existing architecture except to establish a virtual print-only network or to assign your highest-classification network as the print network.

Built on industry-standard servers and using COTS fiber optic network interface cards for the data diode interface, the solution provides standard interfaces to your existing networks and can be mounted in any compatible rack.

The solution architecture is also designed to scale easily through the addition of memory, processors, storage, and parallel systems. For the best return on investment, you need a system capable of growing with you.

Monitor user behavior and protect your networks

Understanding user behavior is key to controlling overall print costs. Monitoring capabilities provided by HP Secure Multiple Network Printing offers a comprehensive analysis of user behavior. All print jobs can be logged and audited and, if required, copies can be kept of all files printed.

Optional content-checking and anti-virus components can also be added, with support for a CD writing capability to enable accounting events to be captured locally.

Keep things running smoothly with services and documentation

To get you up and running right, HP includes onsite installation, verification, and acceptance as part of your statement of work. You'll also receive comprehensive documentation that covers system build and installation, verification testing and acceptance, customer-specific configuration, configuration backup, system diagnostics, and full system recovery. Optional support is also available and can be tailored to meet your specific requirements.

Plan and deploy your imaging and printing security solution

Depending on the scope and size of your imaging and printing security needs, you can plan and execute a solution in a variety of ways.

- HP provides a self-assessment checklist and tool, the HP Security Action Plan, that you can use to scope your fleet and determine your security requirements. You can then implement any built-in security features and/ or procure and deploy specialty imaging and printing solutions on your own.

- HP also offers a comprehensive workshop that can include assessments for nearly every facet of your printing environment. HP consultants will sit down with you to identify fleet-wide vulnerability solutions that increase security and may decrease costs.

- You can use HP Managed Print Services to develop a custom solution that takes care of the imaging and printing security areas you don't want to manage yourself. Or HP can take on everything and deliver a full-service, no-hassle solution.

Why HP?

For more than 50 years, HP has partnered with hundreds of government agencies in countries all around the world, supplying the technical expertise required to better serve their constituents. We've been recognized for our leadership in managed print services by independent analysts such as Gartner,[3] IDC,[4] Quocirca.[5] This experience gives us unique insight into clients' needs to reduce costs, drive productivity, and improve your constituents' experience.

We will take the time to understand your specific needs and create a plan to help optimize your fleet, ensure data and document security, and manage your evolving organization.

Get started

Contact your local HP representative to:

- Set up a workshop with HP to assess your specific business needs.

- Establish a plan to implement the best solution for today and into the future.

- Identify an environmental approach that can help your organization save money.

Learn more
hp.com/go/govworkflow

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[1] System prerequisites: Two industry-standard HP ProLiant Servers for gateway, connectivity to user and printer networks, optional industry-standard HP ProLiant Server for each content checking and antivirus server required.

[2] System prerequisites: ITSEC E6 and Common Criteria EAL-7 evaluated separation, COTS hardware, complete documentation.

[3] Gartner, Magic Quadrant for Managed Print and Content Services, December 21, 2015, ID Number G00271944.

[4] IDC MarketScape: Managed Workflow Services 2015 Hardcopy Vendor Assessment — Building on MPDS, (US) doc #US40586715, (Western Europe) doc #EMEA40662015e, (APeJ) doc #AP40437716, (CEMA) doc #CEMA41124310.

Quocirca, "Managed Print Services Landscape, 2016," July 2016.

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