IPP Fax Project

IPP Fax transport requirements

Revision	Date	Author	Notes
1	10/16/2000	Paul Moore, Peerless Systems Networking	Initial
3	7/15/2003	Gail Songer, Peerless	Clean-up. Modify "Public Access" and "Basic Requi

Deleted: 2

This document captures the requirements for the transport component of IPP Fax. This document assumes that the reader is familiar with IPP 1.1.

Glossary

Sender – A piece of hardware and / or software that sends IPP fax documents to an IPP Fax receiver

Receiver – A piece of hardware and / or software that receives IPP Fax traffic.

Sending user – The human that initiates the transmission of an IPP Fax

Receiving user – The intended human recipient of an IPP Fax

Public access

An administrator of a IPP Fax Receiver needs to be able to make it publicly available on the Internet (or an intranet) but also needs to be informed of the identity of the sending user and equipment.

Basic requirements

- Synchronous and timely delivery to the Receiver
- Uses Internet suit protocols
- Can be private – encryption must be supported
- Can be reliable – data integrity and server authentication must be supported

Basic rules

- A receiver is specified by an ippfax: URL
- Data privacy must be ensured
- The receiver must supply strong authentication
- The sender may supply strong authentication; the receiver may require strong authentication.

IPP extensions

- A sender must identify a job as being an IPP Fax Job.
- Anonymous access is allowed if the sender identifies a job as an IPP Fax job.

- A sender may indicate a return URI

Identity exchange

- Senders and receiver have a unique name- their 'identity'. This should typically be derived from the hardware of the device (MAC address, UPN + serial number, etc.)
- A sender must be able to discover the receiver's identity
- The receiver must be able to discover the identity of the sender.
- Sending and receiving users have structured descriptions – their identity. This data is machine-readable. It contains name, email, mail, phone, etc.
- The receiver must be able to discover the sending user's identity
- The sender should specify the receiving users identify.

IPP restrictions

- An IPP Fax receiver should not allow anonymous users to access job information
- An IP Fax receiver should not allow an anonymous user to cancel or modify jobs.

Notifications

- An IPP Fax receiver must support ippget notifications

Gateways

- A sender must be able to specify an ultimate destination for a document if the receiver is not the intended final destination (forwarding address)
- A sender must be able to discover what types of forwarding addresses a receiver supports.

Logging

- A sender must log its IPP fax transactions
- A receiver must log its IPP Fax transactions
- A receiver must mark the sender identity on at least the first page of an IPP Fax document

Document format

- A receiver must support PDF/is. It may support other document formats