



How It Works

Weaver Onsite identifies networked printers, copiers and MFPs using the **S**imple **N**etwork **M**anagement **P**rotocol (SNMP). SNMP is an application layer protocol that enables the exchange of **M**anagement **I**nformation **B**ase (MIB) between network devices. A Management Information Base (MIB) is a collection of hierarchically organized characteristics of a managed device, comprised of one or more object instances, which are essentially values.

An object identifier (or object ID) uniquely identifies a managed object in the MIB hierarchy. Once identified, information is extracted using a combination of SNMP and the Onsite **H**yper-**M**eter **T**echnology (HMT) that combines a mixture of multiple protocols, communicating and extracting information from a multitude of different areas within a device depending on its architectural design.

Requirements

Printers, copiers and MFP's must have the SNMP protocol enabled for discovery and extraction of information. The SNMP protocol is part of the **T**ransmission **C**ontrol **P**rotocol/**I**nternet **P**rotocol (TCP/IP) protocol suite; therefore a network using the TCP/IP protocol which allows communication over the SNMP port 161 are base requirements.

The target devices must reply to a "ping". This indicates that communication won't be blocked.

Security Concerns

Weaver Onsite may be launched from a Windows 2000/XP/2003 workstation or server with restricted user permissions to the target network.

Although SNMP commands support both read and write operations, Weaver Onsite only reads networked devices and does not modify any default or custom device settings.

Weaver Onsite allows information to be sent from the target network to a remote destination as an attachment to an email (default port 25) or an XML stream (default port 80). By default, this information is encrypted, and requires a user and pass combination for authentication.

Only the information which is extracted during an audit may be saved or transferred to the Weaver Onsite applications. The end-users' confidential data files are not viewed or saved by any applications. The Viewer pages display the main user interface in a web page fashion. It does not communicate over the internet except for obtaining a license, or during use of the included dynamic reports.



Weaver Digital

Printing and copying solutions for your business

08456 123858

www.weaverdigital.co.uk



Virus Concerns

Weaver Onsite application files have been digitally signed to prevent execution if a virus has infected the file integrity. This method ensures that any virus is not activated, and prevents spreading the virus from one network to another.

Network Discovery

The Web Audit **A**utomatic **N**etwork **D**iscovery **S**ettings (ANDS) feature uses a mixture of algorithms to discover and communicate with the different network elements such as the current workstation or server, routers, hubs switches and other network hardware.

Firewalls and other network hardware may prevent or limit the discovery of the network configuration.

WAN's and Network Traffic

Web Audit applications use default timeout settings of 1000ms. Using unicast settings, each IP within the configured ranges will be queried and if no response is received within 1 second, a timeout will occur. Depending on the amount of network traffic and the general network latency, the default timeout can be adjusted.

Weaver Onsite uses an intelligent system that extracts minimal information for each printer, copier or MFP. Unlike similar products that send a fixed set of queries (a superset of all possible queries) to every networked device, the Weaver Onsite family of products only sends the relevant queries according to the fields the identified device supports, with each device query being no more than a few kb of data. To further reduce the amount of network bandwidth used during a discovery, the Weaver Onsite core engine communicates with no more than 20 devices at a single time, with the capability to extract information from up to 5 devices per second. The amount of network traffic at any given time is minimal as a result.

Weaver Onsite is a simple way to monitor networked print and copy devices in a safe and secure manner. If you have any further questions, please contact James Benbow on 08456 123858 or email james.benbow@weaverdigital.co.uk.



Weaver Digital

Printing and copying solutions for your business

08456 123858

www.weaverdigital.co.uk