



VPS Control

data collection and verification

- Create a verified list of key production equipment
- Validate parts inventory against equipment in service
- Establish a complete collection of maintenance data, drawings and documentation for your key equipment



VPS Library

digital content conversion

- Organize and convert your equipment maintenance data into one electronic library
- Consolidate rich media content including detailed drawings, audio and video

VPS Control and VPS Library, NRX's data control and digital content conversion services, help companies collect, verify and convert legacy equipment data and documentation into an electronic repository that can be published, viewed and delivered over the Internet or a LAN/WAN Intranet system.

Data accuracy, the foundation of the VPS solution, is established in your plant. NRX Data Control specialists, averaging more than 20 years of plant design and maintenance experience, walk-down each piece of critical production equipment in service at your plant to create an accurate equipment list. The physical plant walk-down includes examination of each key equipment asset, meticulous collection of nameplate specifications and equipment attributes.

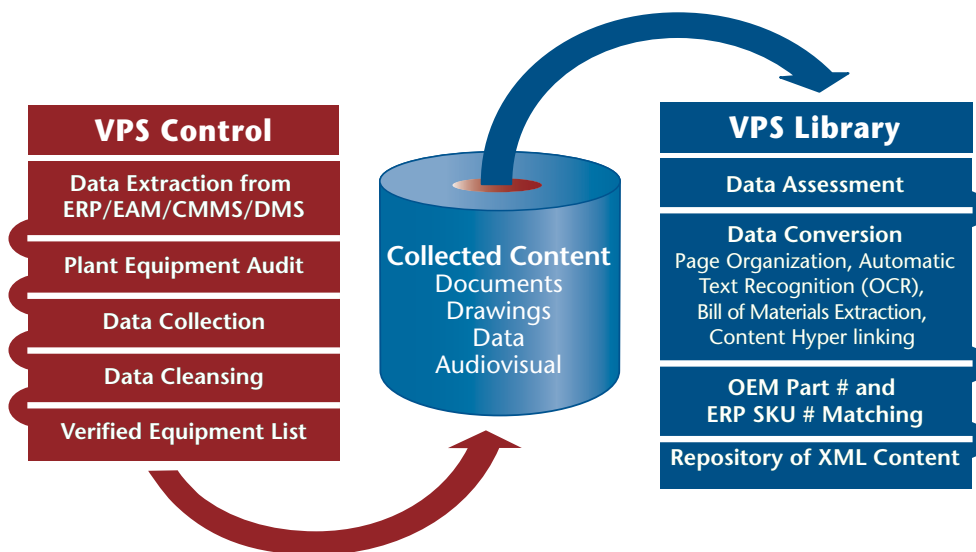
VPS Control begins with an examination of the existing data stored in your maintenance management system. This data is used as a baseline for an intensive physical inventory or 'plant walk-down' of the critical capital assets located on site. As part of the walk down, every critical equipment asset is physically examined and its nameplate specifications, such as its manufacturer, model and serial numbers, are recorded.

NRX uses the latest technology and proprietary software tools throughout its content collection process. Our walk-down specialists use Pen Tablets loaded with VPS data collection software throughout the plant audit. NRX's control software and methodology reduces the amount of time required on site at the plant.

In addition, content related to the maintenance of the equipment, such as parts books, maintenance procedures and service bulletins, is collected and submitted to VPS Library for efficient conversion. Once plant site data collection is completed, NRX works with plant personnel and equipment manufacturers to identify and fill any information gaps.

VPS Control services cleanse and update legacy enterprise data that is found to be incomplete, out of date or inaccurate. After VPS data collection and content conversion projects are completed, a verified equipment register and a library of complete and cleansed equipment maintenance data is available to up-date your maintenance management system and your document management system.

VPS Control also establishes a verified equipment list and produces an accounting of the parts carried in stock at the plant compared with the equipment in service. This facilitates a complete and thorough review of the customer's stocking requirements and the identification of obsolete, incorrect and inappropriate inventory levels.



VPS Library content management services are closely co-ordinated with VPS Control data collection services. The first phase in the conversion process begins at the plant with a thorough needs assessment, conducted by an on-site content assessment group.

A comprehensive content management toolkit is used to assist in tracking the many thousands of individual pieces of content that are required for each project. Every piece of content (e.g. a manual or drawing) is assigned a unique media number for efficient tracking throughout the conversion

VPS Library, NRX's content digitization service, is supported by a robust content management infrastructure designed to process millions of pages of content each year. We convert legacy data from paper, microfilm, microfiche or electronic files into industry standard XML format. In addition to our own content management specialists, we work with a network of reliable outsourcing partners. This enables us to scale resources to project requirements and ensures efficient, timely delivery for our customers.

NRX has developed a streamlined and automated content conversion and management process, utilizing proprietary software tools and a team of experienced specialist resources. Quality Assurance steps are incorporated throughout the process to ensure the highest degree of accuracy.

VPS Library comprises services and technology to efficiently organize, digitize, publish and prepare equipment maintenance content for electronic delivery to your maintenance workforce with a very high degree of quality and integrity.

process. Content assessment includes matching existing electronic content with equipment IDs, identification of outdated media and identification of media type. This assessment determines content conversion requirements.

Content Conversion technicians utilize a proprietary NRX toolkit to digitize content, clean up images, organize the pages and extract structured information such as the bill of materials from a parts book. Hard copy content is digitized using state-of-the-art tools and OCR technology.

The content undergoes a rigorous quality assurance process to ensure accuracy and quality. It is then published to a repository where it can be delivered to your maintenance workforce through VPS Delivery, NRX's electronic delivery application.

As the manuals change over time they may be re-published to the repository so that your maintenance workforce has access to updated information.

NRX Equipment Information Management solutions are backed by professional services that include project management, training and support.

Our Client Services Team works with customers on-site to ensure our solutions are integrated with business processes and designed to meet your business needs. Each implementation begins with a needs assessment, and a scope of work is developed with clear deliverables that are based on the specific requirements of our customers.

Once implemented, VPS is easy to deploy, use and maintain. VPS Delivery's intuitive and visual user interface requires minimal training, even for individuals with limited computer experience. This ensures instant user productivity and is a key advantage to ready adoption and acceptance by all maintenance users.



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