Centralized Reporting System (CRS)

Background

When a nuclear plant's systems are compartmentalized, they lack a common data source and therefore cannot interface with each other. This lack of connectivity hinders utilities' ability to maximize the impact of the information stored on their plant and business systems.

To solve this problem, plants are forced to engineer custom solutions to retrieve and report on this data. This process is expensive and time consuming for utilities and may not be possible if the capabilities to craft these solutions are not available.

Westinghouse's Centralized Reporting System (CRS) solves this problem. Our CRS provides the ability to retrieve data from various systems, store the data into a standardized data store, create and maintain report templates with Microsoft® Office, and deploy reports to the system quickly and efficiently while maintaining a high level of data integrity.

Available Data Sources

Highlights

The CRS simplifies and streamlines report generation by utilizing the following:

Data Integrity

Retrieval and storage of data to a central data store automatically reduces human error, minimizes maintenance and ensures data integrity.

Ease of Use

Quickly and efficiently import data into the centralized data source. Design reports with little or no database knowledge by utilizing standard Microsoft Office applications.

Reusability

The optimized central data source schema allows users to reuse or repurpose previously created reports with new data across a utility's entire fleet.
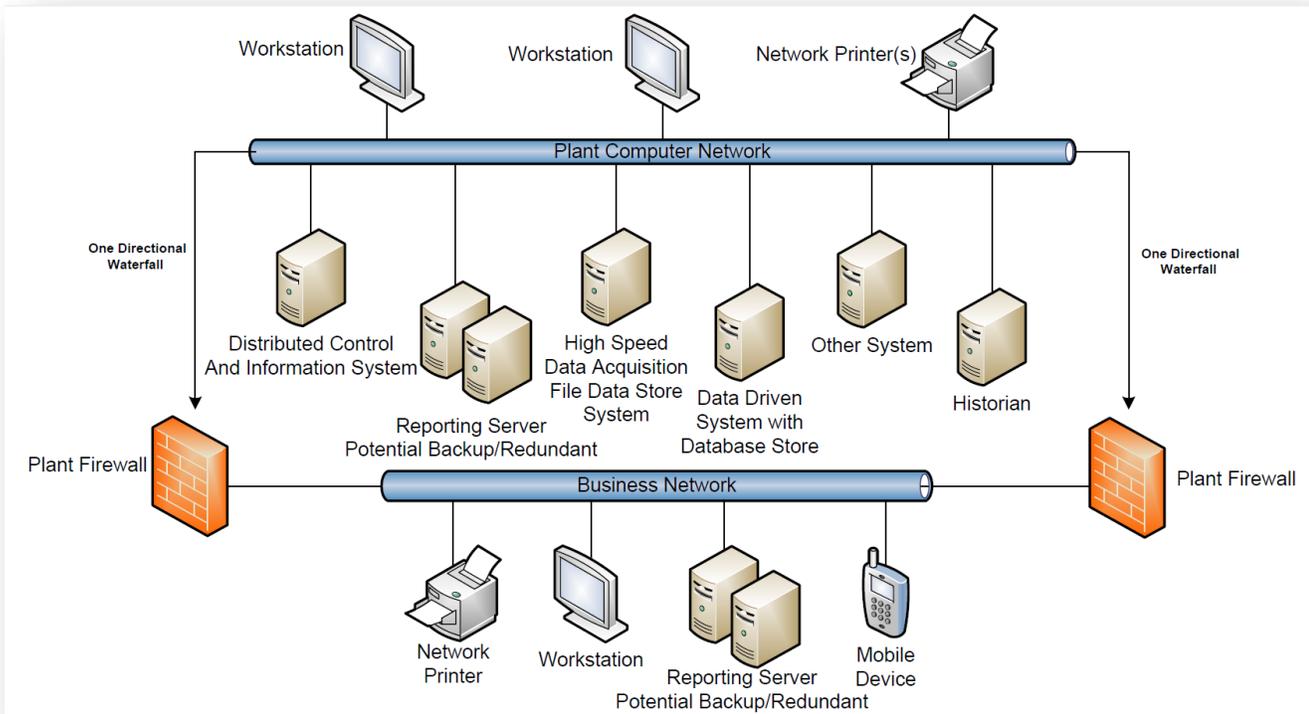

Example Reporting Output

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Capabilities:

- Retrieve "live" data from networks at a frequency of up to 10 milliseconds

- Store retrieved data into a memory structure

- View data from multiple workstations

- Format and present data using easy-to-use tools such as Microsoft Word and PDF

- Archive generated reports along with source data

- Search and regenerate past reports

- Integrate cross-platform data sources into one single report

- Reutilize existing documents for the generation of new reports

- Transport reports from one unit to another with minimal modifications

Benefits

- Reduced costs associated with creating, maintaining and transporting reports by leveraging the standard Microsoft Office suite

- Scalability to cover both small and large system applications

- Implementation with existing business and plant networks

- Ability to interface with existing systems

- Improved control over report generation through periodic, event-driven and on-demand request mechanisms

- Security architecture ensures accessibility through defined user and group roles utilizing Domain Name System (DNS), Lightweight Directory Access Protocol (LDAP) or Structured Query Language (SQL) Server credentials

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Sample of Reporting Architecture