MIRION TECHNOLOGIES

DATABASE SOFTWARE

WACS™

Windows Access Control System

The HIS-20 Access Control system (Windows® Access Control System, or WACS) is a completely integrated set of components used to control personnel access to radiological control areas in a facility. These components seamlessly integrate with all of the appropriate functions within HIS-20. The customer has an almost unlimited number of configuration options allowing the system to be implemented with a minimum impact on site processes and procedures.

FEATURES

- Entry and exit transaction processing
- Works with Electronic dosimeters, self-reading dosimeters or in manual mode
- Dosimeter setpoints flexible by RWP, Task, Individual
- Island mode operation (switching RWPs)
- Failover functionality: client can access up to 10 different servers in the event that one is not running
- The client can run in stand-alone mode if servers are off-line; it can optionally validate a worker's authorization to enter RCA
- Journal recovery available to upload transactions once the server is back on-line
- Configurable Access Control tests
- Customizable messages, sounds, videos
- Automatic notification of problems
- Editing of access control records

DESCRIPTION

Based on the items described above, the software performs a variety of access checks and determines if the worker is allowed or denied access. A message is displayed indicating if access to the RCA has been allowed or denied. If access is denied, messages describing why access has been denied are displayed for the worker.

If entry is allowed, an access record is created in the database. When electronic DRDs are used, the DRD is loaded with the appropriate dose and dose rate alarm limits. These limits are derived from the most restrictive value of the person's dose margin or the dose alarm settings of the RWP / Task. Histogram data can also be captured if desired.

HEALTH PHYSICS DIVISION | DOSIMETRY

WACS | WINDOWS ACCESS CONTROL SYSTEM

QUALITY ASSURANCE

Software development

- Follows IEEE 730 guidelines
- ISO 9001 compliant
- Software documentation includes but is not limited to:
  - Operators Manual
  - Installation instructions
  - IEEE 730 documentation: Software Requirements Specification (SRS, and Software Design Documentation (SDD)
  - Complete data dictionary describing the structure of the database
  - Software Verification and Validation Plan (SVVP), which describes tests cases for all of the modules in the software
  - Software Verification and Validation Report (SVVR) for the latest software release, which documents the results of the vendor's quality assurance procedures relative to the software
- The WACS application is a fully tested and widely used standard product
- All Sites utilize the same software, which is then configured to work for that site
- Enhancements to the product are voted on and discussed at the annual user group meeting

CHARACTERISTICS

Environment

- Client-Server
- Oracle 12c
- Microsoft SQL Server 2014 (2016)
- Windows 10, Windows 2012 R2 (Windows 7 / Windows 2008 R2)
- 32 or 64 bit support server available

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