



Data flows in.
Insights flow out.

Simon aggregates data from the majority of clinical QA systems, across vendors and sites, into one comparable record. With this linac health command center, physicists can evaluate every machine, from a single linac to a full network, and identify potential failures before they cause downtime or delay treatment.

Turning QA Data Into Clinical Intelligence

QA programs generate more data than ever, but it's scattered across devices, vendors, and sites — and compliance checks confirm only whether a measurement passed, not whether a machine is drifting while it still reads in tolerance.

Cloud-native and vendor-agnostic, Simon closes that gap with fleet-wide health tracking, statistical process control, and configurable dashboards. It works alongside SunCHECK®, or independently, to fit how physics departments already run QA.



What radiation oncology teams gain with Simon:

- **At-a-Glance Linac Health:** See the health of every linac in one place, from a single machine to a network.
- **Early Warning and Detection:** Catch developing drift with statistical process control, so a fix happens in a planned maintenance slot instead of on a treatment morning.
- **Unified QA Data:** Bring QA data across vendors and sites into one comparable record.
- **Efficiency Gains:** Eliminate time spent pulling QA data into spreadsheets.
- **Standardization:** Standardize QA across staff and sites, and understand whether the standard is being followed.
- **Audit Readiness:** Prepare for accreditation and audits with less effort.

From Compliance to Capability

Compliance checks answer “did this pass?” — not whether a machine is drifting while it still reads in tolerance. Simon’s statistical process control catches drift early, ahead of a compliance check, fixing it in a planned maintenance window instead of a failed measurement or a delayed treatment.

From Data to Insights and Action

Vendor-Agnostic Data Ingestion

- Able to ingest data from SunCHECK, Daily QA™ 3 and Daily QA™ 4 Pro, IC PROFILER™, SunSCAN™ 3D, SunDOSE™ (4.3 or later), SNC Dosimetry™, PTW, IBA, Varian Medical Systems Inc. – a Siemens Healthineers company trajectory logs, MPC, and commissioning data, normalized into one comparable record
- A lightweight, outbound-only, on-site data hub auto-ingests from the sources physics teams already run, with no manual export

Fleet Health in One Place

- Current fleet performance and per-linac health cards are visible at-a-glance in one live view
- A unified QA and service-event calendar shows what changed and when

Early Warning and Detection

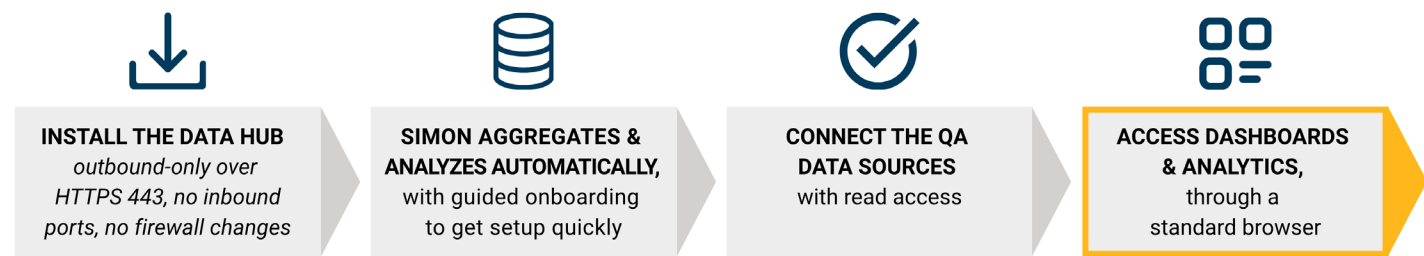
- Statistical process control with Nelson-rule flagging on trended QA metrics, compared against commissioning baselines defined by the user
- MLC trajectory-log trending with RMS and failing-leaf analysis
- Configurable tiles within dashboards, shareable by role, with a full audit trail

“Get the data curated and in one place first. Everything else we want to do comes after that.”

David Barbee, Ph.D., DABR, Director of Technology and Innovation in Radiation, NYU Langone Health



Workflow at a Glance



Technical Specifications

Deployment Model	Cloud-native, multi-tenant SaaS
Host	Microsoft Azure
Access	Secure browser-based access with Microsoft Entra ID single sign-on
Component	Data Hub, a signed Windows service (MSI installer)
Data Hub Host	Windows host, physical or virtual
Connectivity	Outbound HTTPS (port 443) only; no inbound firewall changes, no open ports
Data Inputs	SunCHECK, Daily QA3 and QA4, IC PROFILER, SunSCAN 3D, SunDOSE (4.3 or later), SNC Dosimetry, PTW, IBA, Varian trajectory logs, MPC, and commissioning data
Analytics	Statistical process control with Nelson-rule flagging on trended QA metrics; comparison to your commissioning and reference baselines; MLC trajectory-log trending (RMS, failing-leaf)
Encryption	TLS 1.2+ in transit (mutual TLS for the Data Hub); AES-256 at rest
Security	Per-customer tenant isolation; Cloudflare web application firewall; independent third-party penetration testing
Hosting Certifications	Azure data centers certified to ISO/IEC 27001
Patient Data	Holds no patient identifiable information. Machine measurement data only.
Compliance	HIPAA and GDPR aligned controls with audit logging
Commercial Model	Available as subscription purchase; licensed per linac, per year

