

Looking for an easier way to collect and process your required Control Rod scram timing data?

We support standard data acquisition sources as well as GE NUMAC and Analogic

C3-ilex's Scram timing feature with our Data Acquisition System Importer / Exporter (DASie) can solve your problem.

Scram Timing Features

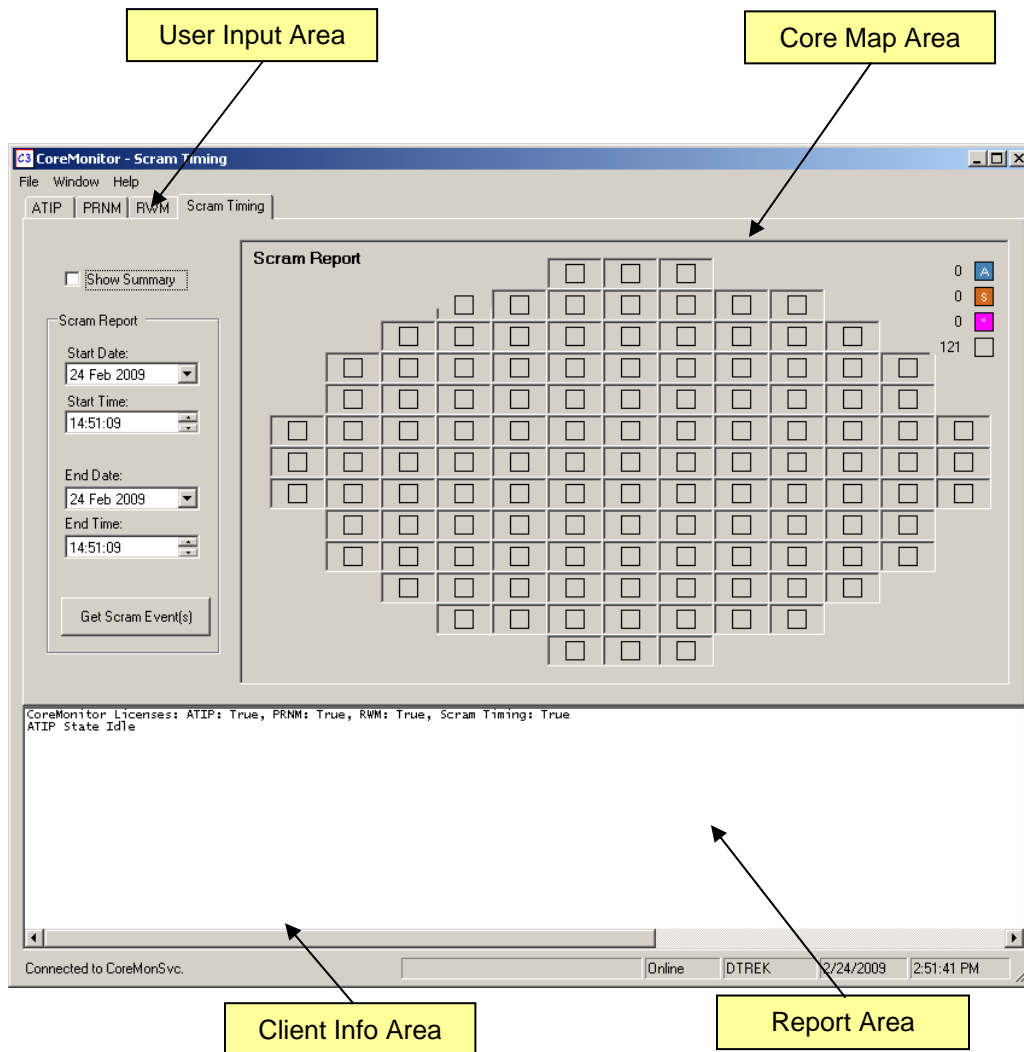
The C3-ilex CRD Scram Timing Data Services function consists of a Windows Service and Windows Client User Interface application incorporated within the C3-ilex Core Monitoring suite of applications (e.g., NUMAC PRNM, RWM and ATIP Data Services). The C3-ilex core monitoring suite of applications are independent of each other, and can be implemented in any combination of CRD Scram Timing, RWM, ATIP and/or PRNM Services. Features of the CRD Scram Timing function include:

- Acquire CRD data from the GE NUMAC RWM, Analogic ANDS or other DAS upon detection of a scram event via the C3-TREK Event Monitor Application. Trigger points and data to be collected are user specified (e.g., multiple scram initiation triggers, jumpered CRD notch position data, vessel dome pressure or any other desired data point).
- Maintain a history of scram time events in the C3-TREK Event Archive database where they can be retrieved for analysis by a CRD Scram Timing Analysis function
- Maintain a Scram Timing Database which establishes: 1) Reactor Core position coordinate for each CRD Point ID, 2) Scram time Interval over which CRD data is to be collected, 3) Scram time logic delays, and 4) Scram time criteria to specified insertion points (or whatever timing criteria is established by Technical Specifications).
- A Scram Time Analysis function wherein CRD performance is evaluated against established criteria. Analyzed scram data is saved; report and edit functions are made available to the user.
- A Report Generation function that allows a user to create reports that detail control rod scram times for a selected period. These include: 1) a Core Map wherein acceptable, slow and inoperable CRDs are identified, and 2) a CRD Scram Timing Report sortable by coordinates, time to insertion, status and chronological.

User Interface

The figure below illustrates the layout of the CRD Scram Timing Client Window. It consists of the following four main areas:

- User Input Area for selecting scram time intervals to be analyzed.
- Core Map Area for graphically displaying control rod scram results for the user selected time frame. Status designators for each CRD include: 1) Acceptable, 2) Slow, 3) Invalid, or 4) No-Data Available.
- Scram Time Report Area for detailed CRD scram time results. Data presented includes: 1) CRD Coordinates, 2) Scram Time to Insertion Points, 3) Dome Pressure, 4) Date/Time of Scram, and 5) Status. Also, displays messages of user actions taken.
- Client Information Area including Date and Time to ensure the user knows the C3-TREK status and server being used for the information shown



For additional details and pricing information, contact your C3-ilex Sales representative at 510 659-8300 (Fremont, CA) or 910 251-1330 (Wilmington, NC) or visit us at www.c3ilex.com