

UNIT 2: Hardware Definition

- **Lesson 1: Control Builder Navigation**
- **Lesson 2: Controller Configuration**
- **Lesson 3: I/O Module Configuration**
- **Lesson 4: NTools**

Control Builder Tabs

- Library Tab - lists all available components and function blocks
- Project Tab - used to configure a project
- Monitoring Tab - used to monitor a project

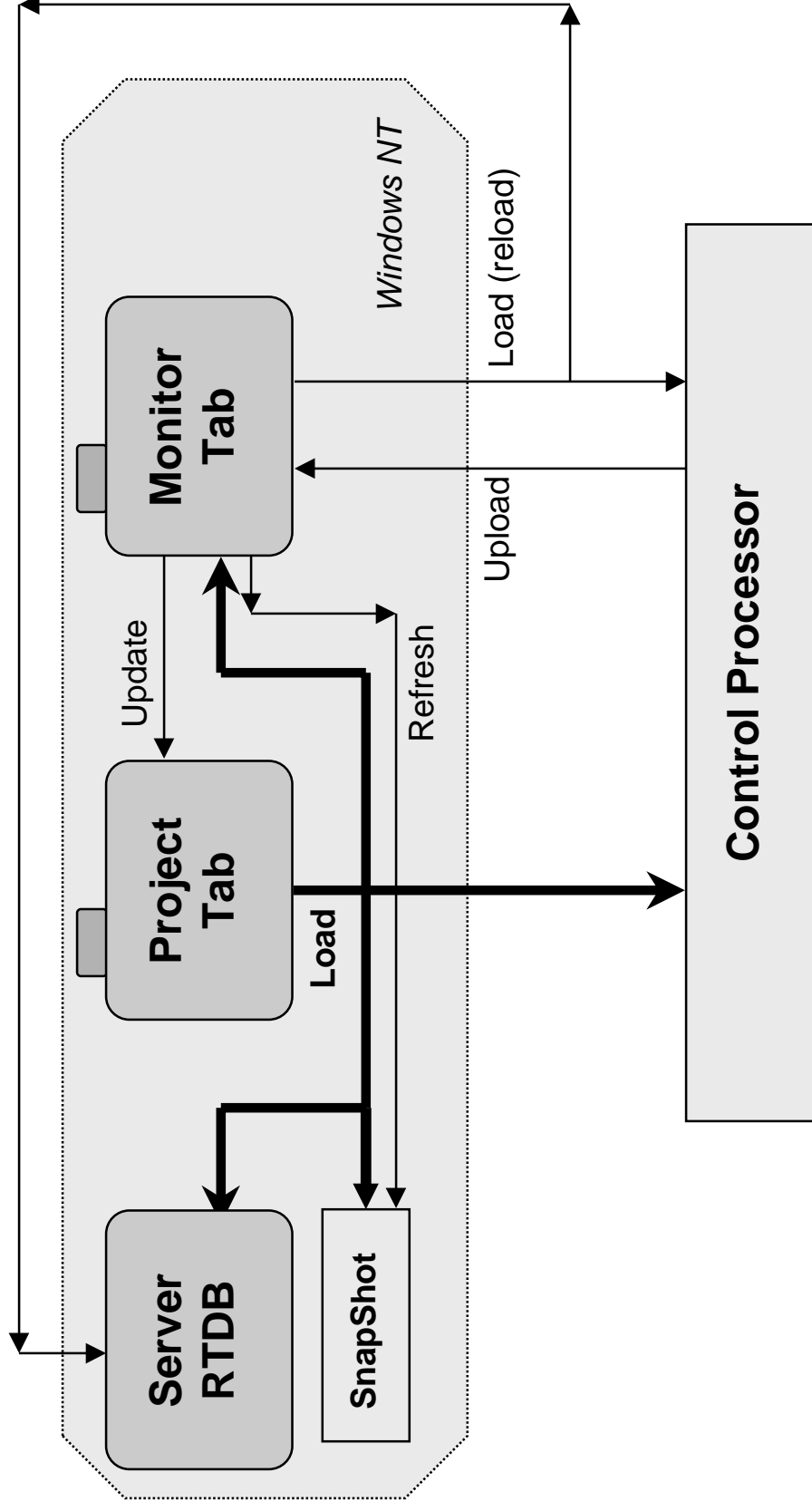
Project Tab Functionality

- **create new CMs and SCMs**
- **define parameter configurations for CMs and SCMs**
- **wire components of CMs and SCMs together**
- **configure CM and SCM alarms**
- **assign CMs and SCMs to CEE**
- **open and edit existing CMs and SCMs**
- **save changes (resulting triangle in tree view indicates a difference between the Project and Monitor databases)**
- **load CMs and SCMs to the CPM**

Monitoring Tab Functionality

- **open CMs and SCMs for online monitoring/control**
- **activate / deactivate CMs and SCMs**
- **change on-line execution parameters**
- **upload on-line changes to the Monitor DB
(resulting triangle in tree view indicates a difference
between the Monitor and Project databases)**
- **update changes to the Project database**
- **refresh changes to the controller Snapshot**

Project / Monitor Tabs



Tools Menu: Load, Upload, Update, and Refresh

Load Command (from Project Tab)

- loads control strategy from Project tab to Control Processor
- copies the control strategy to the Monitoring tab
- automatically creates PlantScape Server points
- automatically creates controller Snapshot

Load Command (from Monitoring Tab)

- reloads the object/control strategy to the Control Processor and updates points in the PlantScape Server real time database

Upload Command

- copies parameters from the Control Processor to the Monitoring tab

Update to Project Command

- copies changes from the Monitoring tab to the Project tab

Refresh from Monitoring Tab

- updates Snapshot file for selected items

Disable Chart Monitoring

- breaks data link between the Monitoring tab and the Control Processor
- allows user to view the contents of the Monitoring data base, not the reflection of what is contained in the Control Processor
- access from Operate menu while chart is open and being monitored