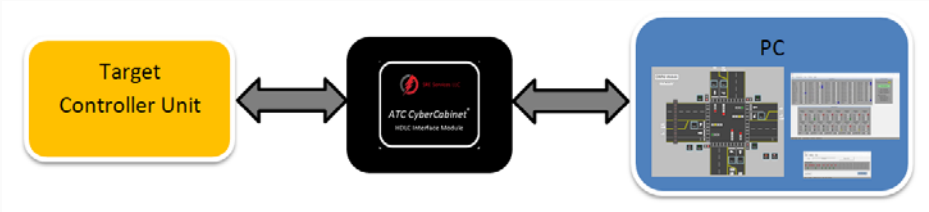
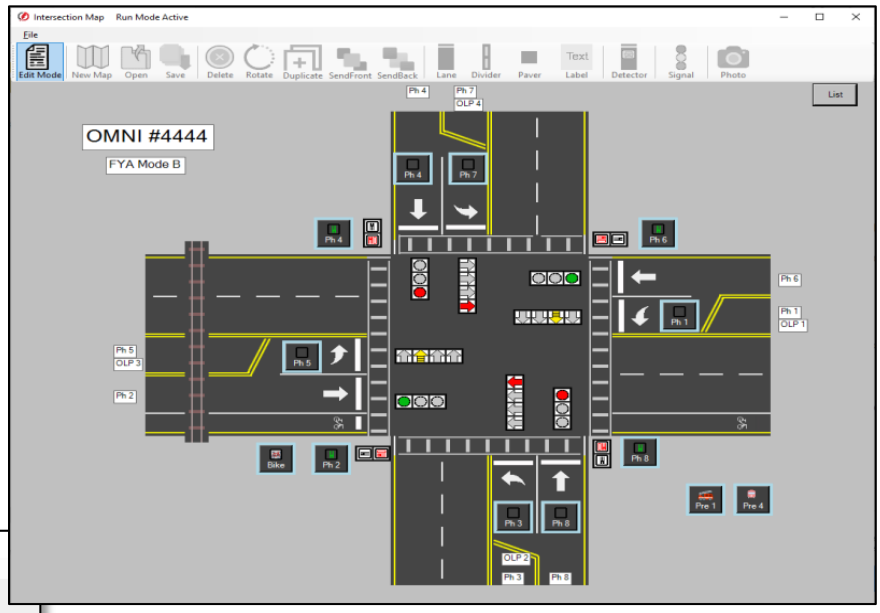
ATC CyberCabinet

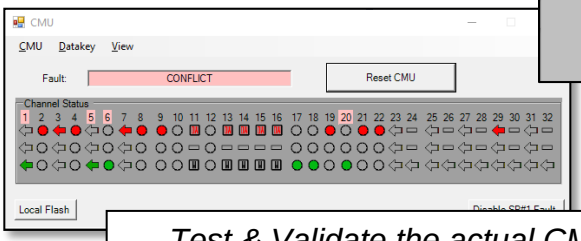
The *ATC CyberCabinet*® software provides a Controller Engineer with a software based solution to test and validate the functionality of an ATC Controller database and CMU Datakey, without needing a full ATC5301 cabinet assembly in hardware.



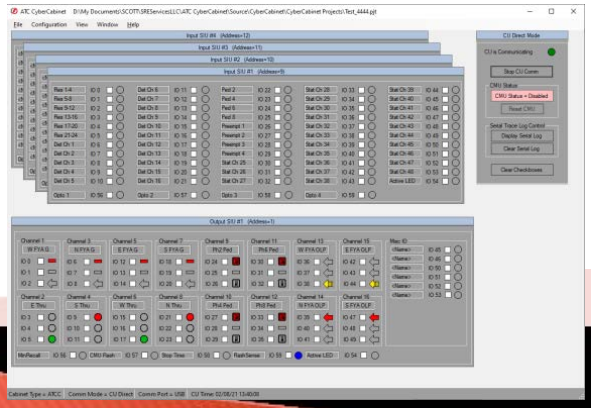
This will produce higher quality results in less time, while reducing or eliminating the need for call-backs once the intersection is operating.

- A built-in Editor is used to develop an icon based overhead view of the target intersection.
- Control icons provide clickable actions for Detector inputs, Ped buttons, and Preemption.
- Traffic signal icons reflect the Controller signal outputs.





Test & Validate the actual CMU Configuration programmed into the cabinet CMU Datakey



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ATC CyberCabinet

Future-Proof your ATC Controller Development and Test Program

Virtual Cabinet Configuration	The ATC CyberCabinet supports five Input SIUs, two Output SIUs, and a 32 channel CMU. Project and Map files store the configuration settings of each intersection.
Main View Modes	Controller operation can be viewed and exercised at the SIU device level (Device View), or with a higher level overhead view of the intersection (Map View).
Device View	The Device View presents SIU inputs and outputs as separate forms (devices) with a control for each IO pin; name field, status icon, and checkbox.
Map View	The Map View elevates the display to a bird's eye view of the intersection geometry. Active icons are used to drive Detector, Ped, and Preempt inputs. Programmable signal face icons display RYG controller outputs.
Map Editor	A built-in Map editor is used to construct the Map view for a target intersection using active Detector & Signal icons and road furniture.
CMU Functionality	A 32-channel CMU function is configured from the actual intersection Datakey parameters to validate compatibility with the Controller database.
Fault Detection	Conflict, Lack of Signal, Multiple, Y Clearance, Y+R Clearance, SB#1 Timeout, Local Flash, and Type 62.
FYA	Full support of Flashing Yellow Arrow including Virtual Channels.
Fault Log	A Previous Fault log is maintained to review any fault events captured by the CMU.
Datakey Load & Read	The CMU Datakey parameters can be read from a file or directly from the Datakey using a supported Datakey Reader device.
Serial Comm Trace Log	A Serial Bus #1 'sniffer' function captures the HDLC frames and displays the frame data and timestamp for detailed real-time analysis.
Replay Mode	Controller sequences can be saved and Replayed to repeat and analyze a signal sequence in detail.
SIU Direct Mode	The SIU Direct Mode can be used to monitor and control a physical SIU-2218 device in a test cabinet.

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