



# Series 3 Plus to **SERIES 3<sup>++</sup>** Migration

## CCC Series 3 Plus Lifecycle Management

After 20 years, production of the Series 3 Plus controller will end in December 2011. CCC planned for a natural product migration by introducing Series 3<sup>++</sup> in 2007. Migration from Series 3 Plus to Series 3<sup>++</sup> provides an easy, efficient, cost-effective, one-to-one controller replacement.

### Migration Benefits

- Reduce process downtime
- Minimize production loss
- Lower the risk of engineering errors
- Keep consistency of operation and minimize the risk of process upsets with proven CCC solutions
- Minimize the risk of environmental and safety incidents
- Start a new product life cycle

### Bonus Improvements

- Class 1, Division 2 Rating
- Enhanced front operator panel
- Integrated Ethernet adapter for ease of communications (optional)
- Higher capacity power supplies for increased reliability
- Increased analog input input voltage protection from 30V to 300V
- Increased analog input input channel isolation from 10V to 270V
- Isolated analog outputs with open wire detection
- Transient protection for analog I/O and serial ports
- Improved analog I/O accuracy, eliminating calibration
- Battery backed-up SRAM for longer data storage
- On-board temperature and power monitoring
- Optional built-in Modbus/TCP



### Fast & Simple Replacement

- Upgrade in less than 2 hours
- Retain existing footprint and panel
- Keep field termination wiring intact
- Maintain high performance control strategies
- Retain same maintenance tools
- Keep compatibility with legacy system (can upgrade one unit at the time)
- Retain most of the existing drawings and documentation
- Requires no additional training for operators

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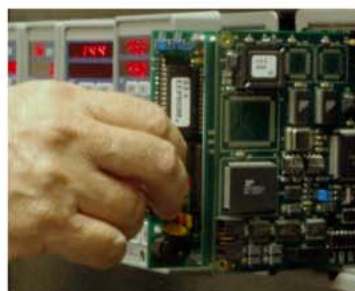
## Replacement Steps



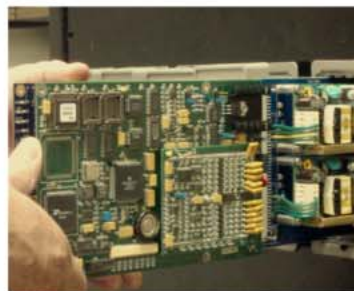
1. Remove power



2. Remove S3+ front assembly



3. Remove S3+ card assembly



4. Replace with S3++ card assembly



5. Replace with S3++ front assembly



6. Restore power

**Note:**  
*Series 3++ and Series 3 Plus Controllers have identical removable field-wiring terminals strips. So, when replacing a Series 3 Plus unit, you can simply unplug the I/O and serial port terminal blocks and transfer them to the replacement, thus simplifying the upgrade process and eliminating the risk of rewiring errors.*

## System Assessment

CCC offers a system assessment as a part of migration strategy. The system assessment includes:

- Audit of current system and process conditions
- Recommendations for process optimization, Operator HMI and historical data storage



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