TECHNICAL BULLETIN

CR100 COIN RECYCLER 0.01 USD PHASEOUT – TB039EN

Summary	Enhancement/Modification ☒ Issue/Repair ☐
Date of Release	10/29/2025
Product Affected	CR100 Coin Recycler
Product Model Affected	All Models
Audience	Retailers, System Integrators, Technical Support Teams
☒ **Enhancement/Modification**	0.01 USD phaseout bulletin required for all coin products impacted

Background

Due to the increasing unavailability of the 0.01 USD coin in circulation, retailers using the CR100 in self-checkout environments may experience operational challenges. This bulletin outlines four supported use cases and provides configuration guidance for each scenario. It also details integration considerations across supported interfaces: Serial Protocol, Custom API, and JavaPOS.

Note that the CR100 has two payment methods:

1. The change to payout is sent to the device and the CR100 calculates the coins to pay out (default).
2. The host calculates the coins to payout and sends coin/quantity commands to the CR100.

Use Case Scenarios

Scenario 1: No Configuration Changes – Unit Runs Short of 0.01 USD Coins

Description:
The retailer continues accepting and dispensing 0.01 USD coins. The CR100 may run short of 0.01 USD coins, leading to an incomplete change payout.

Implications:

- The CR100 will be unable to pay the exact change and will return an associated error.
- Increased operator intervention to refill 0.01 USD coins.

Recommended Actions:

- Determine the POS/SCO error when the payment system is unable to pay out requested change.
- Monitor the coin inventory levels more frequently.
- Consider transitioning to Use Case 2 or 3.

Scenario 2: Accept 0.01 USD Coins but Do Not Dispense as Change

Description:
Retailer accepts 0.01 USD coins as payment but does not dispense them as change.

Configuration Steps:

- **CR100 Settings:** Disable the 0.01 USD coin payout in the coin dispensing configuration.
- **Host Interface:**
  - **Option A:** If the POS/SCO uses the payout by value method, round all dispense requests to multiples of 0.05 USD and ensure the system goes out of service if the 0.05 USD hopper balance reaches zero.
  - **Option B:** If the POS/SCO uses the payout by coin method, ensure all coin dispense requests do not use the 0.01 USD.
- **Integration Notes:**
  - **Serial Protocol/Custom API:** Update the payout command to exclude payouts that are not multiples of 0.05 USD.
  - **JavaPOS:** Modify the change request method used to exclude 0.01 USD.
- **Customer Impact:**
- Change may be rounded to the nearest 0.05 USD or 0.10 USD as required.
- Amount inserted may not be returned if the transaction is aborted.

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Use Case Scenarios (cont.)

Scenario 3: Disable both Acceptance and Dispensing of 0.01 USD Coins

Description:
Retailer opts to fully remove the 0.01 USD coin from transactions.

Configuration Steps:

- **CR100 Settings:** Disable the 0.01 USD coin acceptance and dispensing.
- **Host Interface:**
  - Remove the 0.01 USD coin from accepted denominations on the CR100.
- **Integration Notes:**
  - **Serial Protocol/Custom API:** Update the accepted coin list and payout logic.
  - **JavaPOS:** Modify the enabled denominations and change request method to exclude 0.01 USD.

Customer Impact:

- Transactions may be rounded.

Scenario 4: Reconfigure the CR100 – remove the 0.01 USD Hopper, increase the payout capacity of other Denominations

Description:
Retailer removes the 0.01 USD coin and reallocates larger hopper capacity for another denomination (e.g., 0.05 or 0.10 – 0.25 is already high-capacity in USD models).

Configuration Steps:

- **CR100 Settings:** Remove the 0.01 USD hopper, install a high-capacity hopper in place of the standard hopper for 0.05 USD or 0.10 USD (not both).
- **Host Interface:** Update the hopper denomination mapping.
- **Integration Notes:**
  - **Serial Protocol/Custom API:** Update the hopper mapping.

Benefits:

- Increased capacity for high-usage denominations.
- Improved payout reliability.

Interface Type	Configuration Notes
Serial Protocol	Direct command updates are required for coin acceptance and payout logic.
Custom API	Ensure the API layer reflects the changes in the serial protocol configuration.
JavaPOS	Use the service object properties to manage accepted coins and payout behavior.
uAPI	Update the transactional rules and denomination profiles via configuration files or API calls.

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