Revision History

Revision	Date	Release Version	Change History

| 12.00 | December 30, 2025 | SCA Cadence Release: **Fiserv 4.4.29.1/5.0.29.1** **UGP 4.4.43.1/5.0.43.1** **GSC 4.4.13.1/5.0.13.1** **Worldpay 4.4.22.1/5.0.22.1** **Chase 4.4.17.1/5.0.17.1** | **Application Features:** Added Gift Card Transaction Screen Control feature. Added Enhanced Deployment Experience and Status for SCA Terminals feature. Added Handling SAF Repeating Transactions and SAF Forced Mode and Dequeue Functionality section under Store and Forward. Modified Store and Forward feature section w.r.t. subheadings. **POS Messaging Interface:** Added 61 secondary data and 194 detailed status in Secondary Port - Status command. Added SCREEN_UPDATES_ENABLED field in Activate, Add Value, Balance Inquiry, Close/Cashout, Deactivate, Block Activate request table. Updated SCMCI_INDICATOR, INSTALLMENT, RECURRING and UNSCHEDULED fields in Card validation, Auth, Capture, Credit & Void Request table. Updated COF_SCHEME_REFERENCE_DATA for in Card validation, Auth, Capture, Credit & Void Response table. Added a note in Store and Forward section on sending invalid AUTH number. Added DEVICEMODEL field in Secondary Port Status response table. Updated Level II fields section in Auth, Capture and Credit request tables. **Result/Error Codes:** Added a result code 59083. **Configuration Parameters:** Updated SAFDEFERREDTRANRETRIES parameter description and default values. Added HOSTFORCESAFSUPP parameter in Store and forward table. Moved SENDSAFDECLINEASPOSTAUTH parameter to Worldpay Parameters table. |

11.01	October 17, 2025		

- **Feature Parity - Mx9 vs Engage vs Neo:**
  - Added missing details on MX column.
  - Added feature definitions.
- Corrected CARD_TOKEN description in Best Practices - Tokens section.
- Added a note on sending invalid AUTH number in Features - Store and Forward - Rules section.

11.00	September 30, 2025	SCA Cadence Release: GSC 4.4.12-1/5.0.12-1	

- **Application Features:** Added a note on UGP & GSC in Pre-Authorization Adjustment feature.
- **POS Messaging Interface:**
  - Added DISPLAY_MESSAGE as request field in Secondary port Cancel command.
  - Added PARTNER_ID & CUSTOMER_ID fields in Auth, Capture, Credit & Token query request table.
  - Added CUSTOMER_ID field in Auth, Capture, Credit, Token query & SAF query response table.

10.00	September 15, 2025	SCA Cadence Release: UGP 4.x.42-1/5.x.42-1

- **Overview:** Added definition on FSA in Definition of Terms and FSA Transaction in Transaction Supported section.
- **Application Features:**
  - Added Multi Merchant Support feature.
  - Added Pre-Authorization Adjustment feature.
  - Updated DCC feature description.
  - Added a bullet point as note on field values in the second leg of the request in Capture Card Early Return feature section.
- **POS Messaging Interface:**
  - Added GET_MERCHANT_DETAILS command in Other Administrative section.
  - Added 193 detailed status table of Secondary Port - Status command.
  - Added Multi Merchant transaction details in the following command request: Card Validation, Auth, Capture, Credit, Void, EBT Balance Enquiry, all Gift card and Reports commands, Token Query, Schedule Settlement, Last Transaction and SAF Query response.
  - Added Modifier field in Capture request and response table and ADJUST_AUTHORIZED_DETAILS field in Capture and Last_Trans response table.
  - Updated as "FSA is applicable for Debit and Credit" in Capture and Credit command.
- **Result/Error Codes:** Added a result code 59082.
- **Configuration Parameters:**
  - Added DEFAULTMERCHANTACCOUNT in Application table.
  - Updated DCCENABLEDCARDMODES parameter description.

9.01	September 12, 2025	- Added **Feature Parity - Mx9 vs Engage vs Neo** section. - Protocol details are consolidated with the respective command introduction page for the following sections: Retail and Restaurant, Restaurant/Bar Only, Gift Card Transaction, EBT Transaction, Token Query, Schedule Settlement, Line Item Display and Device Transactions. - Added few additional screens for e280, M400, P400 and P200 devices in Display Screen Specifications section.

9.00	July 22, 2025	SCA4 GSC 4.X.11-1/5.0.11-1 Cadence Release	• **Configuration Parameters:**
			   ○ Added FLEET parameter in Application table.
			   ○ Added Fleet Card Range Table under Card Range section.
			• **Overview:**
			   ○ Updated the Definition of Terms table with few new terms.
			   ○ Updated Supported Cards table with Fleet card brands.
			   ○ Added Fleet Card Transactions under Transaction Supported section.
			   ○ Added Pre-Auth and Completion in Check Transactions.
			• **Application Features:** Added Fleet Card Support section.
			• **Protocol Specifications:**
			   ○ Added 192 detailed status in Status command.
			   ○ Updated the note for BUTTONx_TEXT_LEFT and BUTTONx_TEXT_RIGHT in Quick Credit Application command.
			   ○ Added Checks transaction request fields in Auth command.
			   ○ Added Sample Request and Response for Check in Auth command.
			   ○ Updated the values for CHECK_TYPE field in Capture request table.
			   ○ Added CHECK (only for Completion transaction) as Payment type in Capture request table.
			   ○ Added Sample Request and Response for Check (Completion) in Capture command.
			   ○ Added Request and Response fields and examples on Fleet Card Transaction in Auth, Capture, Credit and Void commands.

8.01	July 07, 2025		• Updated Device UI section for protocol section.

| 8.00 | June 20, 2025 | SCA4 WP 4.X.20-1 Release | • **Media and Display Screens Specifications:**
  ○ Updated Media File - Size and Formats section with Neo2 Devices Screen Resolution and Media Files Location.
  ○ Updated Display Screen Specifications section with M425-A - User Interface.
• **Protocol Specifications:** Added notes specific to e235 device in the following commands: Display Message, Checkbox, Customer Question, Credit App, Survey, Survey5, Survey10, Display Image, Get Card Data, Customer Button and Display QR Code, Line Items – ADD, OVERRIDE and REMOVE. |
| 7.00 | May 15, 2025 | SCA4 FDRC 4.0.28-1 Cadence Release | • **Configuration Parameters:**
  ○ Added MAXTIPAMOUNT and MERCHPYMTGTWYID parameters in Application table.
  ○ Added ENABLERVERVAL parameter in FDRC parameters table.
• **Application Features:** Added Excess Tip Confirmation section.
• **Protocol Specifications:**
  ○ Added 191 detailed status in Status command.
  ○ Added a note on DISPLAY_TEXT4 and DISPLAY_TEXT5 for e235 devices in Custom Buttons command. |

| 6.01 | March 31, 2025 | SCA4 UGP 4.x.41-1 Cadence Release | **Configuration Parameters:** Added HEALTHMONITOR, HEALTHMONITOR_EXCLCMDS and SCAPERFMETRIC parameters in Application table. Updated DEBITREFUNDPIN parameter description with Refund EBT CTLS details. Corrected the parameter name from ADJCAPBLE to ADJCAPABLE in Worldpay table. **Application Features:** Added Transaction Performance Metric section and Health Monitor Events section. **Protocol Specifications:** Added Transaction Performance Metric section with UI_TIME, HOST_TIME, CMD_TIME and CP_TIME fields in all command response table. Added CARD_ABBRV field description in Capture command response table. Added POS_RECON field in all commands. |

| 6.00 | January 17, 2025 | SCA4 UGP 4.x.40-1 Cadence Release | **Configuration Parameters:** Added ALLOWDCCTOSAF and TIPTRANSTYPES parameters in Application table. Added a note in DCCENABLEDTRANSTYPES parameters in DCC table. **Application Features:** Added a bullet point note on using different Card token for 2nd leg transaction in Capture Card Early Return section. **Protocol Specifications:** Added DCC transaction fields in SAF Query response table. Added DCC_IND field with value 2 and 3 in Capture and Auth request table. Added Value 3 for DCC_IND field in Refund Request table. Added DCC_IND field in Auth, Capture and Credit Response table. Added UGP values for SCMCI_INDICATOR field in Card Validation, Auth, Capture request command. Added SCMCI_REASON field in Card Validation, Auth, Capture request command. Added value F for UGP in INSTALLMENT and RECURRING fields in Auth and Capture request table. Added a note for COF_REFERENCE in Card Validation, Auth, Capture request and response command. |

| 5.00 | January 03, 2025 | SCA4 UGP VOS3 5.0.38-1 Cadence Release | • **Configuration Parameters:** Added a new value to SIGIMAGETYPE parameter.
• **Application Features:** Added <EMV_TAGS_REQD> and <EMV_TAGS> in Capture Card Early Return.
• **Protocol Specifications:**
  ○ Added new value in MIME_TYPES field of Signature and SignatureEx commands.
  ○ Added new value in TIMEOUT_DATA field of Display Message commands.
  ○ Added EMV_TAGS_REQD field for Auth, Capture, Credit and Gift command request.
  ○ Added EMV_TAGS field for Auth, Capture, Credit and Gift command response.
  ○ Added IMAGE_NAME field in Display Image command request.
  ○ Added CMRCL_FLAG field in Auth and Capture response.
  ○ Added FORMATTED_DISPLAY_TEXT field in Signature and SignatureEx commands.
  ○ Updated the max length to 16 for all fields in Bottom Button section of Customer Question command. |
| 4.00 | December 06, 2024 | SCA4 WP 4.x.18-1 | **Protocol Specifications:** Added AUTH_REF_NUMBER field, applicable for the following command responses: Card Validation, Auth, Capture, Credit, Void, Add Tip, Reset Tip, Open Tab, Close Tab, Delete Tab, Gift - Activate, Gift - Block Activate, Gift - Reactivate, Gift - Deactivate, Gift - Add value, Gift - Close, Gift - Balance Inquiry and Token Query. |

3.00	November 20, 2024	SCA4 UGP 4.x.39-1	• **Application Features:** Added Application Alerts to VHQ feature section.
			• **Protocol Specifications:**
			   ○ Updated the note for PROMPT_ENCRYPT with CREDITAPPDATAENCRYPTTYPE parameter details.
			   ○ Updated the note for PROMO_PLAN_EXP_DATE in Auth, Capture and Credit command.
			   ○ Updated SAF EDIT command.
			   ○ Updated description of NOT_PROCESSED status is SAF Query and SAF Remove request table.
			   ○ Added CARD_PRESENT field in Card validation, Capture, Credit and Balance Inquiry commands.
			   ○ Added AVAILABLE_BALANCE response field in Card validation and Token Query command and updated AVAILABLE_BALANCE description in Auth, Capture, Credit, Void and all Gift commands.
			   ○ Added COL_3 to COL_10 field in request and response table for all payment commands.
			   ○ Added note on Neo device in ADD and OVERRIDE Line Item commands and added Displaying Line-Item Fields on Device table in Line Item Display ADD command.
			• **Result/Error Codes:** Updated 59053 description with example.
			• **Configuration Parameters:**
			   ○ Added MAXSAFDECLINERETRY in SAF table, RETURNCARDHOLDER in Application table, GIFTPARTIALAUTH parameter in UGP table and CREDITAPPDATAENCRYPTTYPE parameter with its supported values table.
			   ○ Updated the description for DOADMREQ, DOADMREQPINPAD, SIGNATURELIMIT parameters.
			   ○ Added a note in SAFPURGEDAYS parameter and updated PROMOEXPIRYDATE parameter note.

| 2.00 | November 11, 2024 | SCA4 WP 4.x.18-1 | **Configuration Parameters:** Added the following parameters in Worldpay table: PLCCSALEALLOWED, PLCCPROMOCODE, PLCCSALEPW, DEBITOPTIMIZATION. Added DISABLEPLDEBITFORSAF parameter in Application table. Added INTERFACETIMEOUT parameter in GPRS, LAN and WLAN Interfaces tables. **Overview:** Added PLCC in Definition Of Terms table. **Application Features:** Added Debit Optimization section. **Protocol Specifications:** Added PROMO_NEEDED field in Capture, Credit and Void commands request and response tables. Added EMV_TAG_9FA081 tag as example in Capture command Response (EMV) and Last Transaction Response. Added HOST_PAYTYPE field in Capture, Credit and Void commands response table. |
| 1.00 | October 30, 2024 | | First version published. |