

Sterling Multi-Channel Selling Solution

Migration Guide

Release 8.0.1

Sterling Commerce
An IBM Company

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This Migration Guide provides a summary of the changes made to the Sterling Multi-Channel Selling Solution schema from one release to the next. It comprises:

- CHAPTER 2, "Release 7.2 to Release 8.0 Migration"
- CHAPTER 3, "Release 8.0 to Release 8.0.1 Migration"

Each chapter follows the same structure:

- General
- New Database Objects
- Modified Database Objects
- XML Schema Changes
- API Changes

You can track the changes to database tables or to data objects by looking them up in the Index and then seeing the changes that have been made in one or more releases.

In general, database schema are described in terms of Oracle data types and objects. If you are working on a SQL Server, allow for the differences in data types and procedures among the database servers.

This chapter provides a description of the schema changes to the Sterling Multi-Channel Selling Solution from Release 7.2 to Release 8.0. Please consult the Release 8.0 *Sterling Multi-Channel Selling Solution Implementation Guide* for the steps required to upgrade a Sterling Multi-Channel Selling Solution from Release 7.2 to Release 8.0.

There are name changes in this release. See the *Sterling Multi-Channel Selling Solution Overview Guide* for more information.

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General

The main topics covered in this chapter are:

- New Database Objects
- Modified Database Objects
- XML Schema Changes
- API Changes

New Database Objects

List of New Tables

The following is the list of new tables that have been added to the Sterling Multi-Channel Selling Solution in Release 8.0. Beginning with Release 8.0, two databases are used: Transactional database (Knowledgebase) and the Segmentation database. The tables of these two databases are listed separately below. Please refer to the *Sterling Multi-Channel Selling Solution Reference Guide* for details about the tables.

Note: Any table whose name ends with `_TMP` is a temporary staging table.

Transactional Tables

- CMGT_ACTIVITY_X_SEGMENT
- CMGT_ATTR_ALLOWED_VALUES
- CMGT_ATTR_ALLOWEDVAL_LOCALE
- CMGT_ATTR_GROUP_LOCALE
- CMGT_ATTR_PARTNER_VALUES
- CMGT_ATTR_PROFILE
- CMGT_ATTR_USER_VALUES
- CMGT_ATTRIBUTE
- CMGT_ATTRIBUTE_GROUP
- CMGT_ATTRIBUTE_LOCALE
- CMGT_DIST_HDR_ADJ
- CMGT_GIFT_CARD_GATEWAY
- CMGT_OIL_PAYMENT
- CMGT_PARTNER_HIERARCHY
- CMGT_PARTNERS_TMP
- CMGT_PICKUP_OPTIONS
- CMGT_PRODUCT_SYNC_EXT
- CMGT_REGISTRY_EXTN

- CMGT_REGISTRY_PHONES
- CMGT_TEMPLATE_EXTN
- CMGT_USER_SYNC_EXT
- CMGT_WISHLIST_ADDRESSES
- CMGT_WISHLIST_EXTN
- CMGT_WISHLIST_LI_EXTN

Segmentation Tables

- CMGT_ALL_SEGMENT_X_USER_A
- CMGT_ALL_SEGMENT_X_USER_B
- CMGT_AMOUNT_QTY_ROLLUP
- CMGT_ASSIGNED_SEGMENT_X_USER_A
- CMGT_ASSIGNED_SEGMENT_X_USER_B
- CMGT_CART_AMOUNT_QTY_ROLLUP
- CMGT_SEGMENT
- CMGT_SEGMENT_ABAND_CART
- CMGT_SEGMENT_ABAND_CART_LINE
- CMGT_SEGMENT_ABDN_CAT_NUM_TMP
- CMGT_SEGMENT_ABDN_CAT_QTY_TMP
- CMGT_SEGMENT_ABDN_FEAT_NUM_TMP
- CMGT_SEGMENT_ABDN_FEAT_QTY_TMP
- CMGT_SEGMENT_ABDN_ITEM_NUM_TMP
- CMGT_SEGMENT_ABDN_ITEM_QTY_TMP
- CMGT_SEGMENT_BROW_CAT_TMP
- CMGT_SEGMENT_BROW_FEAT_TMP
- CMGT_SEGMENT_BROW_ITEM_CAT_TMP
- CMGT_SEGMENT_BROW_ITEM_TMP
- CMGT_SEGMENT_BUILD

- CMGT_SEGMENT_CAT_ORD_AMT_TMP
- CMGT_SEGMENT_CAT_ORD_NUM_TMP
- CMGT_SEGMENT_CAT_ORD_QTY_TMP
- CMGT_SEGMENT_CONTROL
- CMGT_SEGMENT_EVENT_CAT
- CMGT_SEGMENT_EVENT_PROD
- CMGT_SEGMENT_EVENT_SEARCH
- CMGT_SEGMENT_EXCLUDE_TMP
- CMGT_SEGMENT_FEAT_ORD_AMT_TMP
- CMGT_SEGMENT_FEAT_ORD_NUM_TMP
- CMGT_SEGMENT_FEAT_ORD_QTY_TMP
- CMGT_SEGMENT_ITEM_ORD_AMT_TMP
- CMGT_SEGMENT_ITEM_ORD_NUM_TMP
- CMGT_SEGMENT_ITEM_ORD_QTY_TMP
- CMGT_SEGMENT_LINE
- CMGT_SEGMENT_LINE_ATTRIBUTE
- CMGT_SEGMENT_LINE_BHC
- CMGT_SEGMENT_LINE_BHC_LIST
- CMGT_SEGMENT_LINE_ENTITY_FIELD
- CMGT_SEGMENT_SEARCH_NUM_TMP
- CMGT_SEGMENT_TRACKING_EVENT
- CMGT_SEGMENT_TRACKING_EVENT_A
- CMGT_SEGMENT_TRACKING_EVENT_B
- CMGT_SEGMENT_USER_LINE_TMP
- CMGT_SEGMENT_USER_ORD_AMT_TMP
- CMGT_SEGMENT_USER_ORD_NUM_TMP

List of New Indexes

The following indexes have been added:

Transactional Indexes

TABLE 1. New Transactional Indexes

| Table Name | Index Name |
|--------------------------|----------------------------|
| CMGT_ATTR_ALLOWED_VALUES | ALLOWED_VAL_ATTRIBUTE |
| CMGT_ATTRIBUTE | ATTR_GROUP |
| CMGT_ATTRIBUTE | ATTR_NAME |
| CMGT_ATTRIBUTE_GROUP | ATTR_GROUP_PARENT |
| CMGT_PARTNER_HIERARCHY | CMGT_PARTNER_HIERARCHY_IDX |
| CMGT_PRICELIST_LINES | CMGT_PRICELISTPL_KEY |

List of New Triggers

The following triggers have been added:

Transactional Triggers

TABLE 2. New Transactional Triggers

| Table Name | Trigger Name |
|-----------------------------|---|
| CMGT_ADDRESSES | user_addr_sync |
| CMGT_ATTR_ALLOWEDVAL_LOCALE | attr_allowedval_locale_trigger |
| CMGT_ATTR_GROUP_LOCALE | attr_group_locale_trigger |
| CMGT_ATTRIBUTE_LOCALE | attribute_locale_trigger |
| CMGT_PARTNERS | insrt_partner_hierarchy_tr updt_partner_hierarchy_tr |
| CMGT_PHONES | user_phone_sync |
| CMGT_PRODUCT | product_sync |
| CMGT_USER_CONTACTS | user_sync |

List of New Views

The following views have been added:

Segmentation Views

- CMGT_SEGMENT_ASSIGN_USER_LIST
- CMGT_SEGMENT_CALC_USER_LIST

List of New Sequences

The following views have been added:

Transactional Sequences

- ATTR_ALLOWED_VALUE_KEY
- ATTRIBUTE_GROUP_KEY
- ATTRIBUTE_KEY
- ATTRIBUTE_PROFILE_KEY
- OIL_PAYMENT_KEY_SEQ
- OPTION_KEY_SEQ
- REGISTRY_PHONE_KEY_SEQ
- WISHLIST_ADDRESS_KEY_SEQ

Segmentation Sequences

- LIST_ENTRY_KEY_SEQ
- SEGMENT_KEY_SEQ
- SEGMENT_LINE_KEY_SEQ

List of New Sequence Procedures

The following sequence procedures have been added:

Transactional Sequence Procedures

- ATTRALLOWEDVALKEY
- ATTRIBUTEGROUPKEY
- ATTRIBUTEKEY
- ATTRIBUTEPROFILEKEY
- OILPAYMENTKEY
- PICKUPOPTIONKEY

- REGISTRYPHONEKEY
- WISHLISTADDRESSKEY

Segmentation Sequence Procedures

- LISTENTRYKEY
- SEGMENTKEY
- SEGMENTLINEKEY

List of New Constraints

Transactional Foreign Key Constraints

TABLE 3. Transactional Foreign Key Constraints Table

| Foreign Key Name | Table Name | Column Name | Referred Table |
|-------------------------|------------------------------|------------------------|--------------------------|
| FK_ATTR_ALLOWED_VAL_KEY | CMGT_ATTR_ALLOWED_VAL_LOCALE | ATTR_ALLOWED_VALUE_KEY | CMGT_ATTR_ALLOWED_VALUES |
| FK_ATTR_GROUP_KEY | CMGT_ATTR_GROUP_LOCALE | ATTRIBUTE_GROUP_KEY | CMGT_ATTRIBUTE_GROUP |
| FK_ATTR_KEY | CMGT_ATTR_ALLOWED_VALUES | ATTRIBUTE_KEY | CMGT_ATTRIBUTE |
| FK_ATTR_PROF_KEY | CMGT_ATTR_PROFILE | ATTRIBUTE_KEY | CMGT_ATTRIBUTE |
| FK_ATTR_PRTN_KEY | CMGT_ATTR_PARTNER_VALUES | ATTRIBUTE_KEY | CMGT_ATTRIBUTE |
| FK_ATTR_USER_KEY | CMGT_ATTR_USER_VALUES | ATTRIBUTE_KEY | CMGT_ATTRIBUTE |
| FK_ATTRIBUTE_KEY | CMGT_ATTRIBUTE_LOCALE | ATTRIBUTE_KEY | CMGT_ATTRIBUTE |

Segmentation Foreign Key Constraints

TABLE 4. Segmentation Foreign Key Constraints Table

| Foreign Key Name | Table Name | Column Name | Referred Table |
|------------------------|--------------------------------|-------------|----------------|
| FK_SEGMENT_KEY | CMGT_SEGMENT_LINE | SEGMENT_KEY | CMGT_SEGMENT |
| FK_ASSIGN_SEG_X_USER_A | CMGT_ASSIGNED_SEGMENT_X_USER_A | SEGMENT_KEY | CMGT_SEGMENT |

TABLE 4. Segmentation Foreign Key Constraints Table (Continued)

| Foreign Key Name | Table Name | Column Name | Referred Table |
|--------------------------|--------------------------------|------------------|-------------------|
| FK_ASSIGN_SEG_X_USER_B | CMGT_ASSIGNED_SEGMENT_X_USER_B | SEGMENT_KEY | CMGT_SEGMENT |
| FK_ALL_SEG_X_USER_A | CMGT_ALL_SEGMENT_X_USER_A | SEGMENT_KEY | CMGT_SEGMENT |
| FK_ALL_SEG_X_USER_B | CMGT_ALL_SEGMENT_X_USER_B | SEGMENT_KEY | CMGT_SEGMENT |
| FK_SEGMENT_ATTRIBUTE_KEY | CMGT_SEGMENT_LINE_ATTRIBUTE | SEGMENT_LINE_KEY | CMGT_SEGMENT_LINE |
| FK_SEGMENT_BHC_KEY | CMGT_SEGMENT_LINE_BHC | SEGMENT_LINE_KEY | CMGT_SEGMENT_LINE |
| FK_SEGMENT_LIST_KEY | CMGT_SEGMENT_LINE_BHC_LIST | SEGMENT_LINE_KEY | CMGT_SEGMENT_LINE |
| FK_SEGMENT_ENTITY_KEY | CMGT_SEGMENT_LINE_ENTITY_FIELD | SEGMENT_LINE_KEY | CMGT_SEGMENT_LINE |

Transactional Primary Key Constraints

TABLE 5. Transactional Primary Key Constraints Table

| Primary Key Name | Table Name | Columns |
|----------------------|-----------------------------|----------------------------------|
| PK_ATTRGRP_KEY | CMGT_ATTRIBUTE_GROUP | ATTRIBUTE_GROUP_KEY |
| PK_ATTRGRP_L_KEY | CMGT_ATTR_GROUP_LOCALE | ATTRIBUTE_GROUP_KEY LOCALE |
| PK_ATTR_KEY | CMGT_ATTRIBUTE | ATTRIBUTE_KEY |
| PK_ATTR_L_KEY | CMGT_ATTRIBUTE_LOCALE | ATTRIBUTE_KEY LOCALE |
| PK_ATTR_VAL_KEY | CMGT_ATTR_ALLOWED_VALUES | ATTR_ALLOWED_VALUE_KEY |
| PK_ATTR_VAL_L_KEY | CMGT_ATTR_ALLOWEDVAL_LOCALE | ATTR_ALLOWED_VALUE_KEY LOCALE |
| PK_ATTRUSERV_KEY | CMGT_ATTR_USER_VALUES | USER_KEY ATTRIBUTE_KEY |
| PK_ATTRPRTNV_KEY | CMGT_ATTR_PARTNER_VALUES | PARTNER_KEY ATTRIBUTE_KEY |
| PK_ATTRPROF_KEY | CMGT_ATTR_PROFILE | ATTR_PROFILE_KEY |
| PK_PARTNER_VERTICALS | CMGT_PARTNER_VERTICALS | VERTICAL_KEY PARTNER_KEY |

TABLE 5. Transactional Primary Key Constraints Table (Continued)

| Primary Key Name | Table Name | Columns |
|--------------------------|---------------------------|--------------------------------|
| PK_PARTNERSKILLS | CMGT_PARTNERSKILLS | SKILL_KEY PARTNER_KEY |
| PK_PARTNERSERVICES | CMGT_PARTNERSERVICES | PARTNER_KEY SERVICE_KEY |
| PK_PARTNER_CATEGORIES | CMGT_PARTNER_CATEGORIES | PARTNER_KEY CATEGORY_KEY |
| PK_PARTNER_DISTRIBUTORS | CMGT_PARTNER_DISTRIBUTORS | PARTNER_KEY DISTRIBUTOR_KEY |
| CMGT_PARTNER_TERRITORIES | CMGT_PARTNER_TERRITORIES | PARTNER_KEY TERRITORY_KEY |

Segmentation Primary Key Constraints

None.

Modified Database Objects

The following database objects are modified in upgrading from Release 7.2 to Release 8.0:

New Columns

The following columns are added to existing tables:

Transactional Columns Added

TABLE 6. Columns Added to Tables

| Table Name | Column Name | Data Type | Nullable? |
|----------------------|----------------------|------------|---------------|
| CMGT_PRICELIST_LINES | PRICE_TYPE_CODE | NUMBER(20) | NOT NULL |
| | PARENT_LINE_KEY | NUMBER(20) | POSSIBLY NULL |
| CMGT_OIL_LI | SEPARATELY_SHIPPED | NUMBER(1) | POSSIBLY NULL |
| CMGT_OIL_LI_H | SEPARATELY_SHIPPED | NUMBER(1) | POSSIBLY NULL |
| CMGT_ORDER_LI_EXTN | SERVICE_CONTRACT_KEY | NUMBER(20) | POSSIBLY NULL |

TABLE 6. Columns Added to Tables (Continued)

| Table Name | Column Name | Data Type | Nullable? |
|-------------------------------|-------------------------------|----------------|---------------|
| CMGT_ENTITY_UPDATED_LOG | AUX_ENTITY_ID | VARCHAR2(3000) | POSSIBLY NULL |
| CMGT_CART_CONFIGURATION | TYPE | VARCHAR2(256) | POSSIBLY NULL |
| | CREATION_DATE | DATE | POSSIBLY NULL |
| | UPDATE_DATE | DATE | POSSIBLY NULL |
| | CREATED_BY | NUMBER(20) | POSSIBLY NULL |
| | UPDATED_BY | NUMBER(20) | POSSIBLY NULL |
| CMGT_CART_CONFIGURATION_LINES | PRICE_LOCKED | NUMBER(1) | POSSIBLY NULL |
| | COMMERCE_ITEM_KEY | NUMBER(30) | POSSIBLY NULL |
| CMGT_ORDER_LI_EXTN_H | SERVICE_CONTRACT_KEY | NUMBER(20) | POSSIBLY NULL |
| CMGT_PRODUCT | SERVICE_MAINTENANCE_MODEL_KEY | NUMBER(20) | POSSIBLY NULL |
| CMGT_RULE_FRAGMENTS | MODELID1 | NUMBER(20) | POSSIBLY NULL |
| | MODELID2 | NUMBER(20) | POSSIBLY NULL |

XML Schema Changes

The following sections summarize the changes to the XML schema:

New Data Objects

The following data objects have been added in Release 8.0:

- AllSegmentUser
- AssignedSegmentUser
- AttrAllowedValuesLocale

- `AttribAllowedValues`
- `AttribDefn`
- `AttribDefnLocale`
- `AttribGroup`
- `AttribGroupLocale`
- `AttributeData`
- `AttributeLocaleData`
- `AttributePartnerValue`
- `AttributeProfile`
- `AttributeUserValue`
- `AuxiliaryPrice`
- `AvailabilityRequest`
- `ChildAttribGroup`
- `CouponValidation`
- `CreditCardBillOrderAddress`
- `DistributedHeaderAdjustment`
- `Echo`
- `GiftCardGateway`
- `ItemInstruction`
- `LightWeightAttributePartnerValue`
- `LightWeightAttributeUserValue`
- `LightWeightLineItem`
- `LightWeightOrderExtension`
- `LightWeightOrderLineItemExtension`
- `LightWeightRegistry`
- `LightWeightRegistryExtn`
- `LightWeightTemplate`

- LightWeightTemplateExtn
- LightWeightUser
- LightWeightUserOil
- LightWeightWishlist
- LightWeightWishlistExtn
- ListWeightPartner
- OILPayment
- OrderCouponData
- OrderOFData
- OrderOLPData
- PartnerAttribute
- PartnerDataWithRootPartnerData
- PartnerHierarchy
- PickupOptions
- PricingAdjustment
- PricingCartItem
- PricingCartServiceReply
- PricingCartServiceRequest
- PricingCoupon
- PricingLineItem
- PricingLineServiceReply
- PricingLineServiceRequest
- PricingSupplierPrice
- ProductComponent
- ProductInfo
- ProductSearchResults
- ProductSync

- ProductSyncHeader
- ProductSyncHeaderDataObj
- PurchaseHistory
- Registry
- RegistryExtn
- RegistryPhones
- Segment
- SegmentActivities
- SegmentationCalcMembersInfo
- SegmentationPublishMembersInfo
- SegmentBuild
- SegmentControl
- SegmentLine
- SegmentLineAttribute
- SegmentLineBHC
- SegmentLineBHCListValue
- SegmentLineEntityField
- Supplier
- SyncCronMsg
- Template
- TemplateExtn
- UserActivityTrackingEvent
- UserContactAttribute
- UserSync
- UserSyncHeader
- Wishlist
- WishlistAddresses

- WishlistExtn
- WishlistLineItem
- WishlistLineItemExtn

Modified Data Objects

- DataServicesLookupHelper
- DsBusinessObjects
- DsDataElements
- DsKeyGenerators
- DsRecipes
- LightWeightLookup
- LightWeightPartner
- LineItem
- MSSQLJDBCKeyGenerators
- ODBCKeyGenerators
- OILHeader
- OracleKeyGenerators
- OrderDiscountLog
- OrderExtension
- OrderInquiryListLineItem
- OrderLineItemExtension
- OrderSearchCriterion
- Partner
- PartnerData
- PaymentGateway
- PricingCartAction
- PricingCartLevelRule
- PricingCartRuleSelection

- Product
- ProductEntitlementPartner
- ProductLookup
- ProductSearchCriteria
- PromotionControl
- PromotionSearchCriterion
- PromotionSelectionBySKUDate
- RootPartnerData
- ShoppingCart
- UserContact
- UserXCartDefaults

Deleted Data Objects

- ActuateAbsoluteDate
- ActuateDaily
- ActuateDeleteJob
- ActuateExecuteReport
- ActuateMonthly
- ActuateReportParameter
- ActuateScheduleReport
- ActuateUser
- ActuateWaitForReport
- ActuateWeekly
- QueryMailingList
- RecipientCriteria

API Changes

Application layer Java APIs have been extended to support the new functionality in Release 8.0. Consult the Javadoc for further details.

Release 8.0 to Release 8.0.1 Migration

This chapter provides a description of the schema changes to the Sterling Multi-Channel Selling Solution from Release 8.0 to Release 8.0.1. Please consult the Release 8.0.1 *Sterling Multi-Channel Selling Solution Implementation Guide* for the steps required to upgrade a Sterling Multi-Channel Selling Solution from Release 8.0 to Release 8.0.1.

There are name changes in this release. See the *Sterling Multi-Channel Selling Solution Overview Guide* for more information.

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General

The main topics covered in this chapter are:

- New Database Objects
- Modified Database Objects
- XML Schema Changes
- API Changes

New Database Objects

List of New Tables

There are no new tables in this release.

List of New Indexes

The following indexes have been added:

Transactional Indexes

TABLE 7. New Transactional Indexes

| Table Name | Index Name |
|-------------------------|-------------------------------|
| CMGT_AUTH_USER_CONTACTS | CMGT_AUTH_USER_CONTACTS_PERF1 |
| CMGT_PROMOTION_CONTROL | PROMOTION_CTL |
| CMGT_OIL | CMGT_OIL_OWOTCSAF |

List of New Triggers

There are no new triggers in this release:

List of New Views

The following views have been added:

- CMGT_PRDCT_CTGRY_FEAT_VW

Segmentation Views

There are no new segmentation views in this release.

List of New Sequences

There are no new sequences in this release.

List of New Sequence Procedures

There are no new sequence procedures in this release.

List of New Constraints

Transactional Foreign Key Constraints

There are no new transactional foreign key constraints in this release.

Segmentation Foreign Key Constraints

There are no new segmentation foreign key constraints in this release.

Transactional Primary Key Constraints

TABLE 8. Transactional Primary Key Constraints Table

| Primary Key Name | Table Name | Columns |
|-------------------|---------------------------|------------------------------------|
| PK_OIL_PAYMENT | CMGT_OIL_PAYMENT | OIL_HEADER_KEY, OIL_PAYMENT_KEY |
| PK_AUTHENTICATION | CMGT_AUTHENTICATION_EVENT | IDENTITY_KEY EVENT_KEY |

Segmentation Primary Key Constraints

TABLE 9. Segmentation Primary Key Constraints Table

| Primary Key Name | Table Name | Columns |
|-----------------------|-------------------------|--|
| PK_ACTIVITY_X_SEGMENT | CMGT_ACTIVITY_X_SEGMENT | SEGMENT_KEY, ACTIVITY_KEY, ACTIVITY_TYPE |

List of New Business Rules

The following business rules are new in this release:

- Distances available for in-store pickup search
- Default distance for in-store pickup search
- Distance unit of measure for in-store pickup
- Enable Future Pickup
- Maximum number of pickup stores

Modified Database Objects

The following database objects are modified in upgrading from Release 8.0 to Release 8.0.1:

New Columns

The following columns are added to existing tables.

TABLE 10. Columns Added To Tables

| Table Name | Column Name | Data Type | Nullable? |
|----------------------|-----------------|------------|---------------|
| CMGT_SEGMENT_CONTROL | DEPLOYMENT_TYPE | NUMBER(20) | POSSIBLY NULL |
| | | | |

Business Rules

The following business rules are removed from this release:

- SuppressProductCategory

XML Schema Changes

There are no changes to the XML schema in this release.

API Changes

Application layer Java APIs have been extended to support the new functionality in Release 8.0.1. Consult the Javadoc for further details.

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