

# ***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.



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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

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## 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
- PICKUPTIONKEY



- 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

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## **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*

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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

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## 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)	POSSBILY 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.

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## **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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