

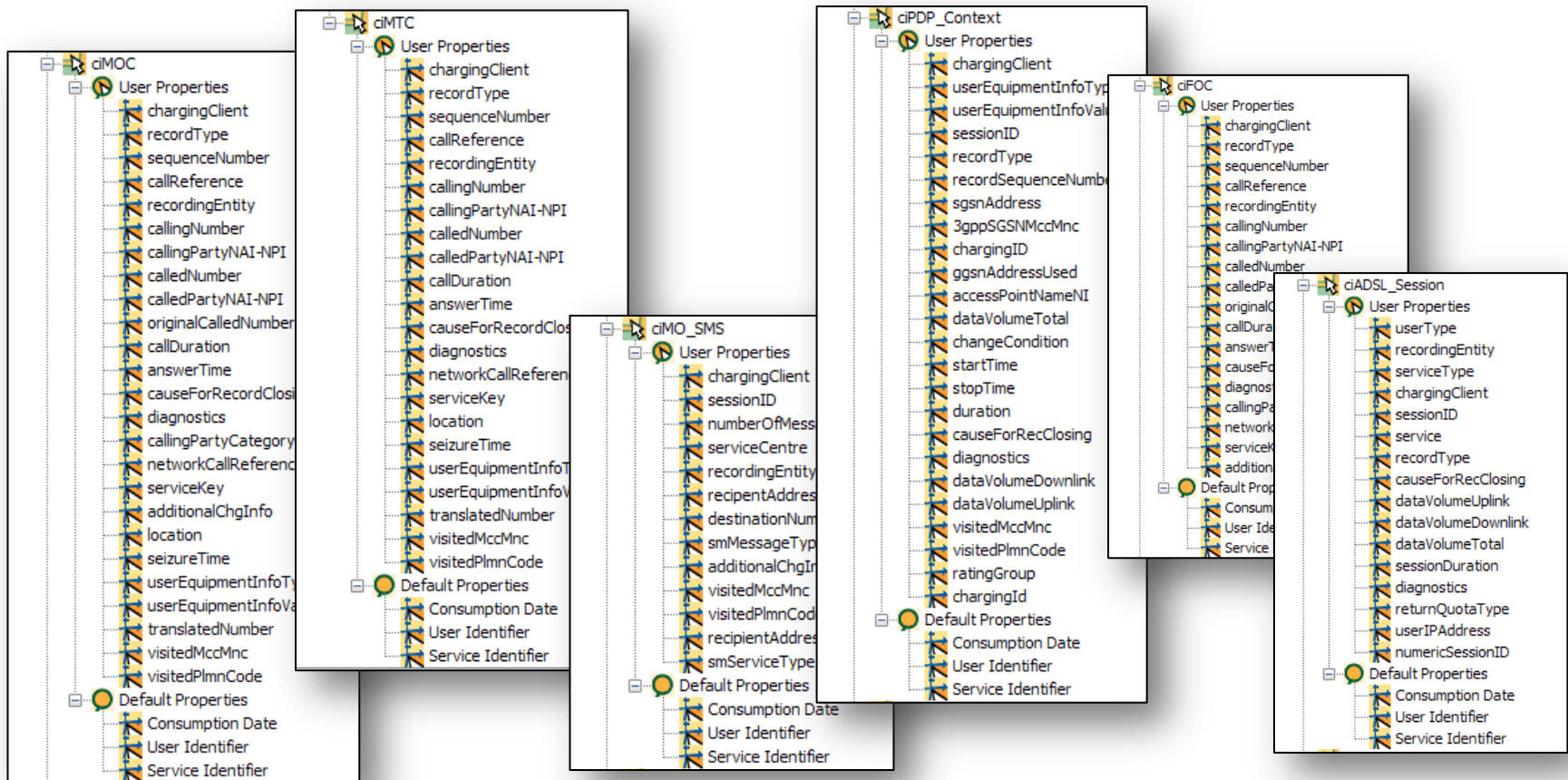


# ALTIMA TELCO STANDARD CATALOGUE

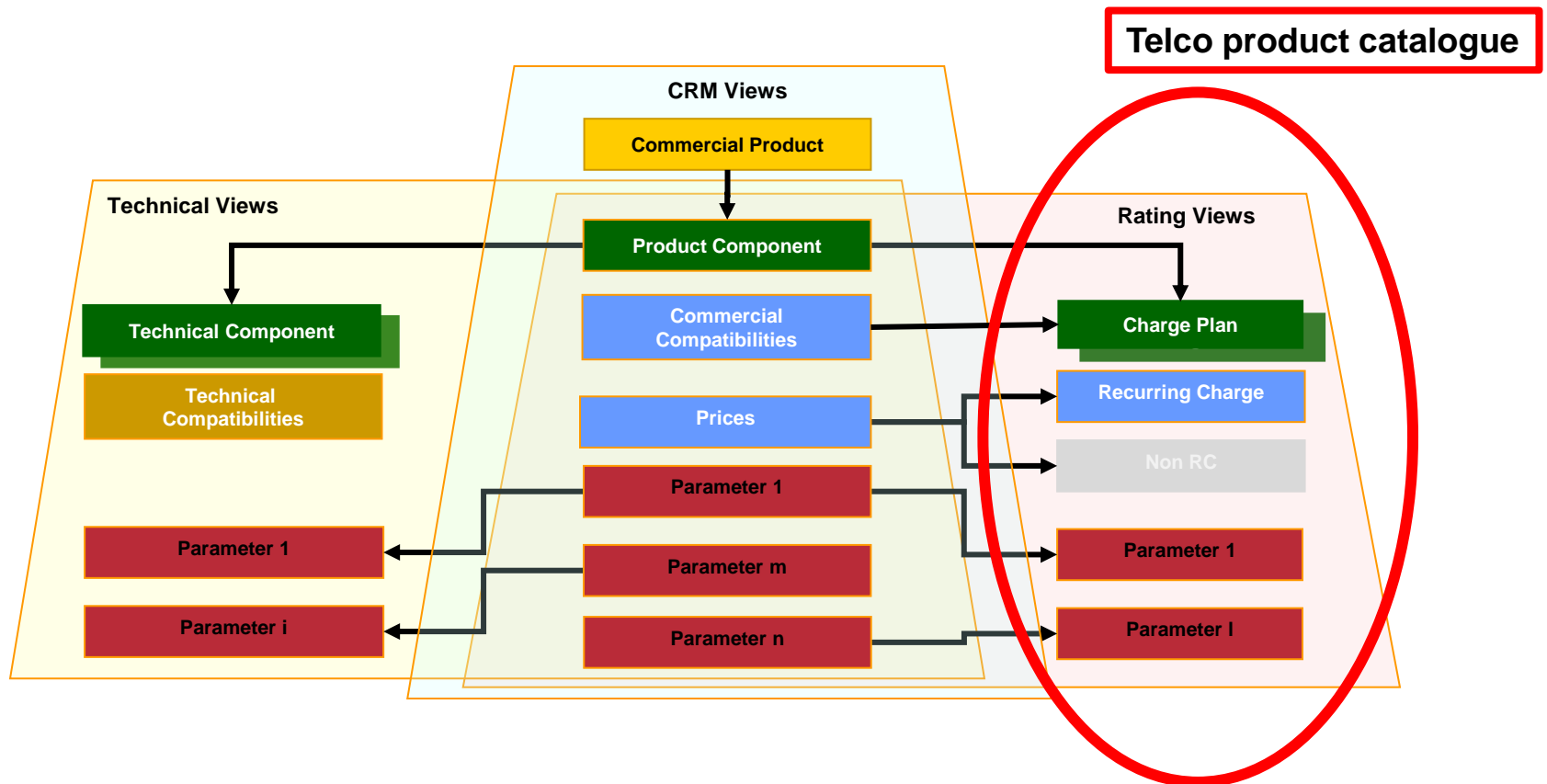
# Telco product catalogue – usage properties

Predefined list of usage properties for telco services:

- ❑ Mobile Originated call
- ❑ Mobile Terminated call
- ❑ Mobile Originated SMS
- ❑ GPRS PDP Context
- ❑ Fix Originated call
- ❑ ADSL Session
- ❑ Other non-telco services



# Product Catalog Views



- ❑ Focus of the solution is to provide a Charge Plan Catalog in SAP CC with an integration to the Commercial Product Catalog in CRM
- ❑ Provisioning System and Network Elements owns the technical view of a product
- ❑ CRM combines the different views of a product: commercial - rating - provisioning

# Telco product catalogue – price plan features

- ❑ Definition of tariff plan
  - ❑ Definition of customer exceptions from the standard tariff plan
  - ❑ First use handling for tariff plan (active extension, first-use event type, ...)
- ❑ Definition of zones
  - ❑ Definition of customer exceptions from the standard zoning
- ❑ Definition of pricing – properties:
  - ❑ Combinations of tariff plan / offer and zones, setup and usage fees (per minute, MB, SMS, ...), rounding rules, price fine tuning (e.g. excepted zones), tariff time period key for definition of peak/off-peak periods.
- ❑ Definition of offers
  - ❑ Name, type, global validity type based on contract, eligibility conditions for rating
  - ❑ Prioritized list
- ❑ Definition of free usage properties:
  - ❑ Combinations of tariff plan / offer and zones, affected counter, rounding rules, period key when applicable
- ❑ List of usage profiles affected by relevant combinations of tariff plan / offer and zones
- ❑ Definition of recharge events
  - ❑ Depending on tariff plan and recharged amount, active period expiration type (from current date of from current expiration) and value (number of days or months)
- ❑ Definition of bonus and discounts
  - ❑ Combinations of tariff plan / offer and zones, or for recharge event. This is key to set of data defining bonus logic, like condition for granting bonus, bonus limits, etc.
- ❑ Definition of notifications
  - ❑ Combinations of tariff plan / offer and zones, subscriber's notification profile determines notification logic, like thresholds, message IDs, delivery channels, etc.
- ❑ Customer exceptions for all of above listed features

# Telco product catalogue – additional features

- ❑ 3GPP compliant charging record definition
- ❑ Predefined BITs for integration with SAP CI
- ❑ Offers triggered by relevant combination of tariff plan / offer and zones
- ❑ Free usage scaling, use for offer same flexibility for monetary and non-monetary free usage
- ❑ Multi-tier pricing
- ❑ Multi tier rounding, enabling changing of rounding rules through the session
- ❑ Maximum session units (duration, volume), depending on combination of tariff plan / offer and zones
- ❑ Multiple CUGs and multiple favorite number lists
- ❑ Multitier bonus granting
- ❑ Multitier usage profiles
- ❑ BIT record on individual offer consumed units and contributed amount
- ❑ Prioritized list of offer affected by auto-renewal (frequency, amount, conditions, ...)
- ❑ Discount priorities
- ❑ Product lifecycle management, data driven status of the product
- ❑ Product eligibility and compatibility check
- ❑ VAS service channel integration with messaging and eligibility
- ❑ Charging references priority lists, based on tariff plan / offer and zones, time or service

# Telco product catalogue – configuration

- ▣ Technical management in SAP CC Core Tool
- ▣ Product management application in Web GUI

The image displays three overlapping screenshots of the SAP CC Core Tool Web GUI, illustrating the configuration process for Telco products.

**Rate set configuration (top left):** The 'Rate set' screen shows fields for 'Rate set name', 'Service', and 'Pricing usage'. The pricing usage section includes input fields for setup and usage rates for Peak, Off-peak, Weekend, and Holiday periods, all set to 0.00 EUR.

**Rate plan configuration (top right):** The 'Rate plan' screen shows fields for 'Rate plan name' and 'Save'. It features tabs for 'MOC', 'SMS', and 'GPRS'. The 'Rating usage' section includes 'Origination zone' and 'Destination zone' dropdowns. The 'Pricing context' section includes 'Rating set', 'Time switch interval', 'Rounding step', and 'Rounding threshold' fields. The 'Free usage context' section includes 'Counter', 'Rounding step', and 'Rounding threshold' fields.

**Product configuration (bottom left):** The 'Product' screen shows fields for 'Product ID', 'Rate plan', and 'Rating mode' (Prepaid/Postpaid). It features tabs for 'MOC', 'SMS', and 'GPRS'. The 'Free counters' section includes a table with columns for '#', 'Counter', 'Value', and 'Options'. The 'Common attributes' section includes 'Free units multiply', 'Unused treatment', and 'Prorate units' fields.

#	Counter	Value	Options
1	ON	100	✎ ✖
2	OFF	200	✎ ✖ + Add

# Telco product catalogue – integration

- ❑ SAP CC API: SOAP, XML, Charging Interfaces (Java native classes).
- ❑ Extension of full SOA enabled interface via Ai.PI:
  - ❑ Reoccurring activation and charging logic:
    - ❑ Complex bundle products that require de-composition and/or affect multiple contracts.
    - ❑ Implementation of add-on external logic for product activation or charging
    - ❑ Decomposition of bulk commands in individual actions and handling of transactional nature of the command.
    - ❑ Configuration of eligibility and relation between the products
  - ❑ Multiple atomic commands bundling in provisioning action.
  - ❑ Bundling of Billing provisioning commands with other network elements commands.
  - ❑ Notification handling and triggering of any business or technical action associated with it.
  - ❑ VAS and messaging integration
- ❑ Bulk operations:
  - ❑ E.g. Pre-activation of prepaid cards

# Discounting options

- ❑ Discounts in Contracts and Counter Sharing Contracts (in SAP CC)
  - ❑ Pricing plan logic: can reduce rated amount or generate reversal (credit) fee.
  - ❑ Used in product modeling to assign them to products
  - ❑ If the product allows it, the discount can also be selected during order capture
  - ❑ The discount will be passed to CI via provider contract distribution
  - ❑ Used for monthly fee discounts, service level discounts, free buckets, additional monetary wallets
- ❑ Discounts on Contract Account (defined in SAP CI)
  - ❑ Invoice level discounts
  - ❑ Used for threshold discounts – e.g. If data service products exceeds 100 EUR you will get a 5% discount on your voice usage
- ❑ Discounts on Master Agreement (defined in SAP CI)
  - ❑ Discounts can be used in discount agreements (also defined in CI) as part of an master agreement.
  - ❑ They can be applied across different contracts of the same business partner or even across different business partners.
  - ❑ The service user is not necessarily the receiver of the discount.

Some discounts can be implemented either in CC or in CI and it depends on what you want to reach, what the appropriate approach is (e.g. lower price vs. explicit discount).



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The image displays three overlapping screenshots of the SAP CC Core Tool Web GUI, illustrating the configuration process for Telco products.

**Rate set configuration (top left):** The 'Rate set' screen shows fields for 'Rate set name \*' and 'Service \*' (with a dropdown menu). Below, the 'Pricing usage' section includes input fields for 'Peak setup rate', 'Off-peak setup rate', 'Weekend setup rate', and 'Holiday setup rate', each with a corresponding 'usage rate' field. All rates are set to 0.00 EUR.

**Rate plan configuration (top right):** The 'Rate plan' screen features a 'Rate plan name' field and a 'Save' button. It includes tabs for 'MOC', 'SMS', and 'GPRS'. The 'Rating usage' section has dropdowns for 'Origination zone' and 'Destination zone'. The 'Pricing context' section includes 'Rating set' (dropdown), 'Time switch interval' (dropdown), and 'Rounding step' and 'Rounding threshold' (input fields with units). The 'Free usage context' section includes a 'Counter' (dropdown) and 'Rounding step' and 'Rounding threshold' (input fields with units).

**Product configuration (bottom left):** The 'Product' screen shows a 'Product ID' field and a 'Create new product' button. The 'Basic product usage' section includes a 'Rate plan' dropdown and 'Rating mode' radio buttons for 'Prepaid' (selected) and 'Postpaid'. Below, the 'Free counters' section contains a table with columns for '#', 'Counter', 'Value', and 'Options'.

#	Counter	Value	Options
1	ON	100	✎ ✖
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The 'Common attributes' section includes 'Free units multiply' (dropdown), 'Unused treatment' (dropdown), and 'Prorate units' (checkbox).

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