COMVERSE UNIVERSITY

Comverse ONE Data Model

Lesson Objectives

By the end of this lesson you will be able to:

- Explain the functionality of the Data Model
- List the different entities in the Data Model

Agenda

Introduction to Comverse ONE Data Model

Accounts and Subscribers

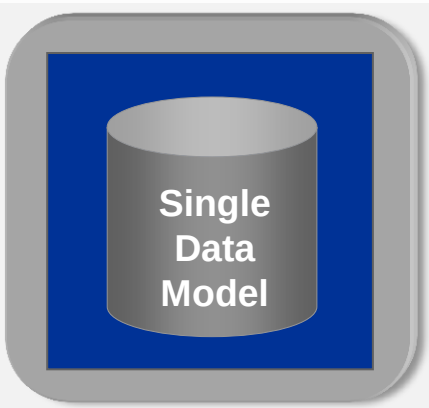
Offers and Bundles

Charge Redirection

Where We Are

Active Customer Management

Rating, Charging and Promotions

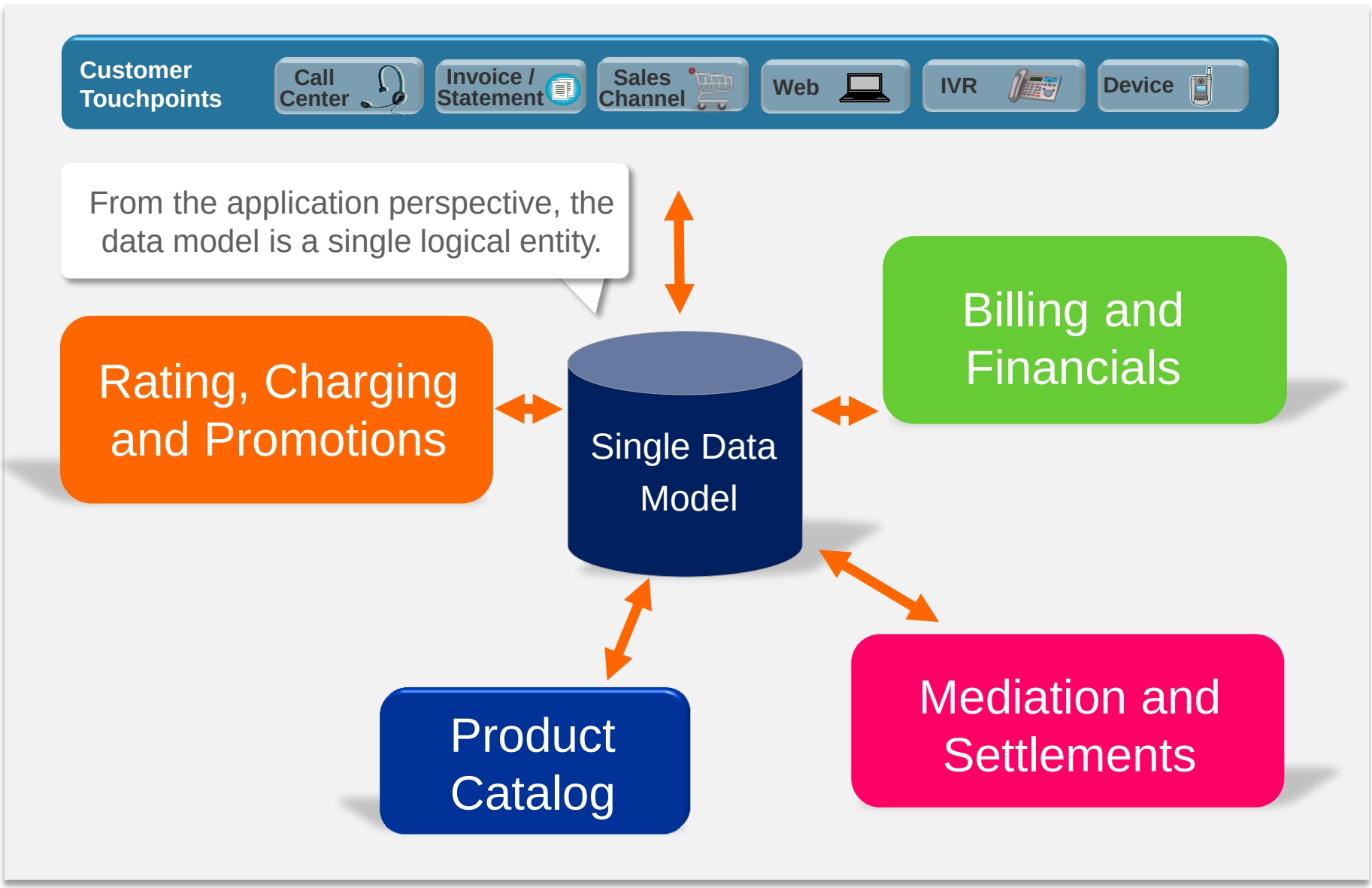


Billing and Financials

Product Catalog

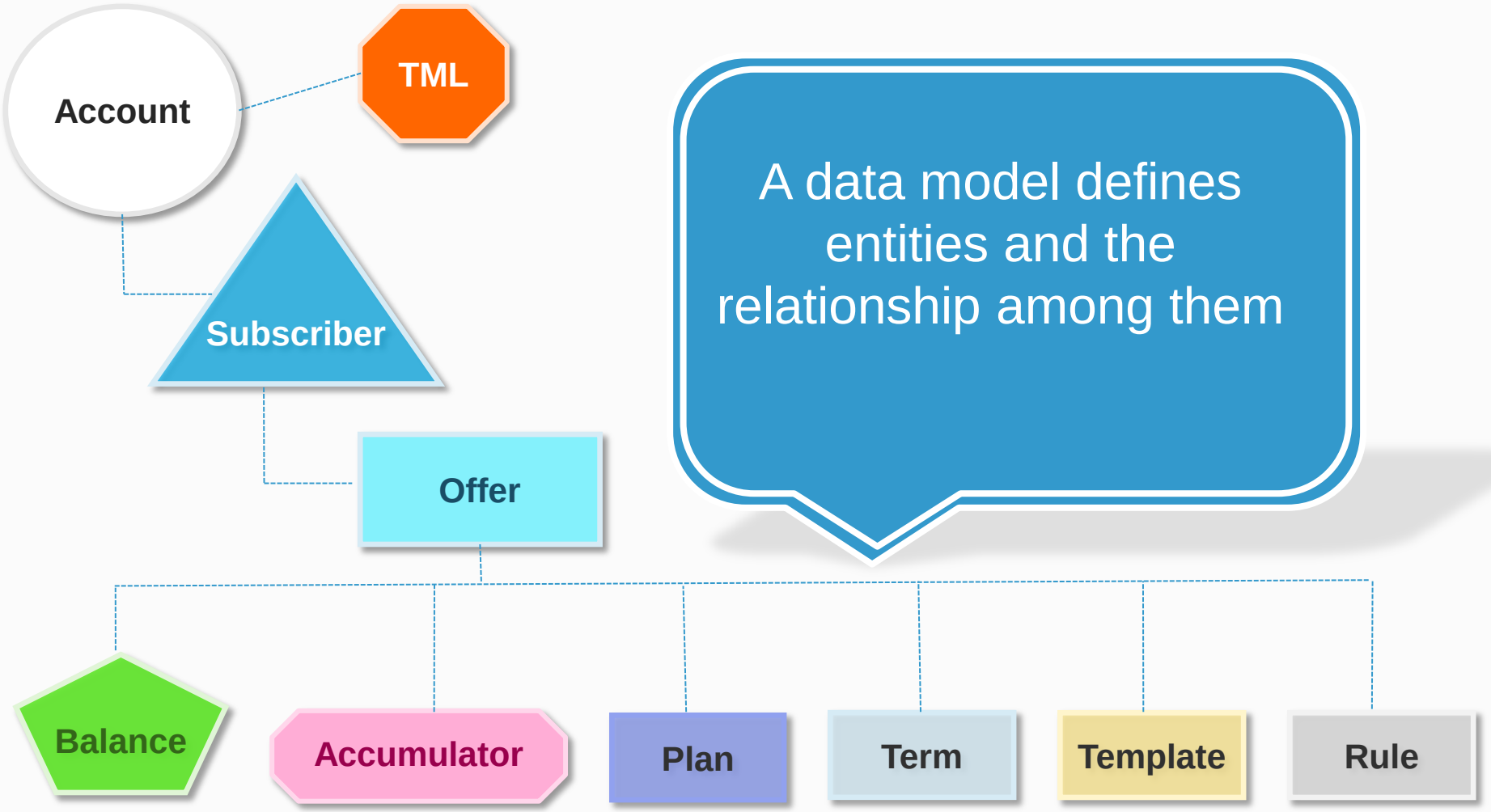
Mediation and Settlements

Data Model Internal Interfaces



Meet the Forest Family!

Main Entities in the Data Model



Agenda

- Introduction to Comverse ONE Data Model
- **Accounts and Subscribers**
- Offers and Bundles
- Charge Redirection

What Is an Account?

Account

Forest Account

Total Monetary Liability (TML)

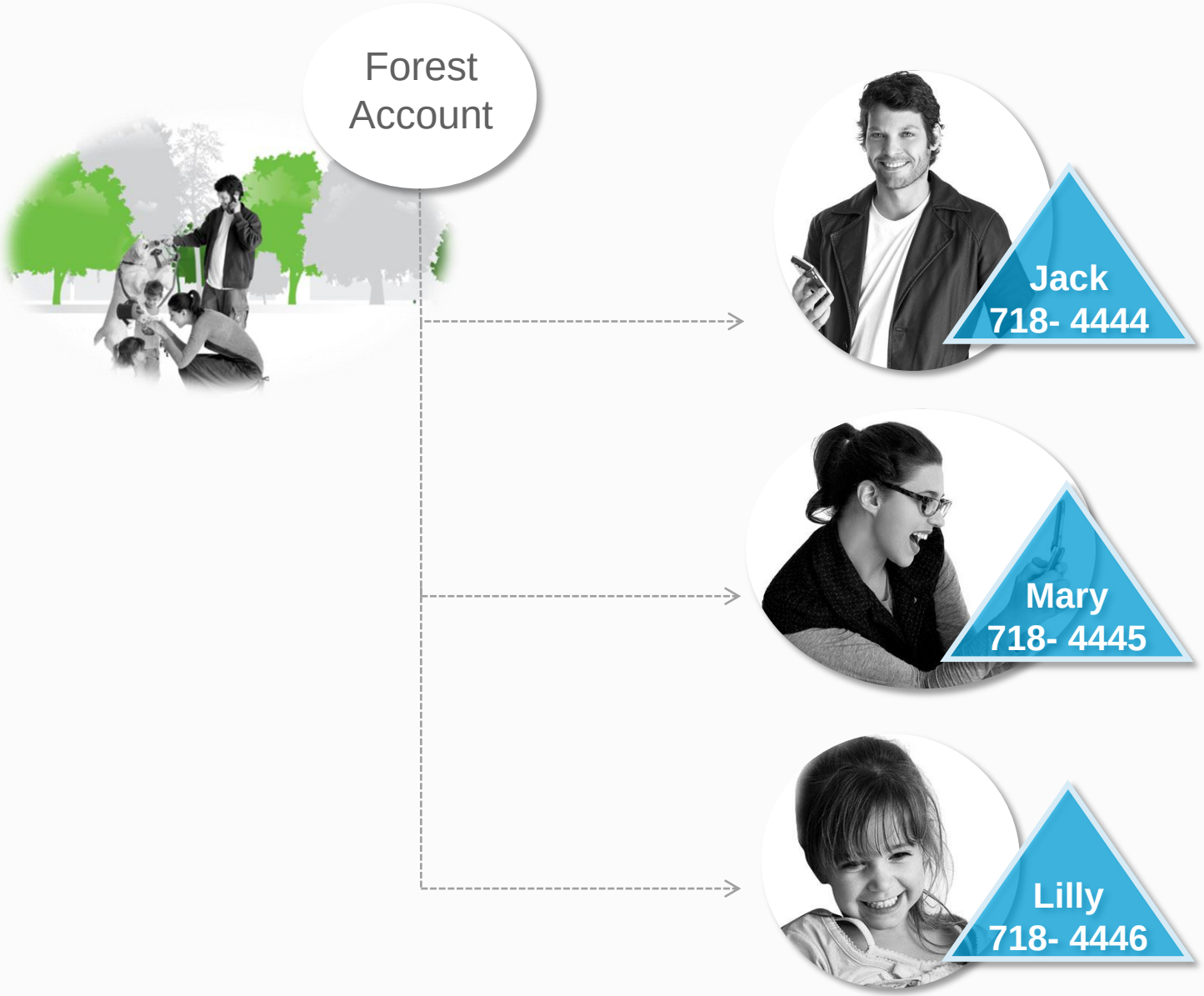
TML

- Real-time summation of an account's monetary liability
- Monetary debits increase the TML
- Monetary credits decrease the TML
- Only for postpaid and converged accounts

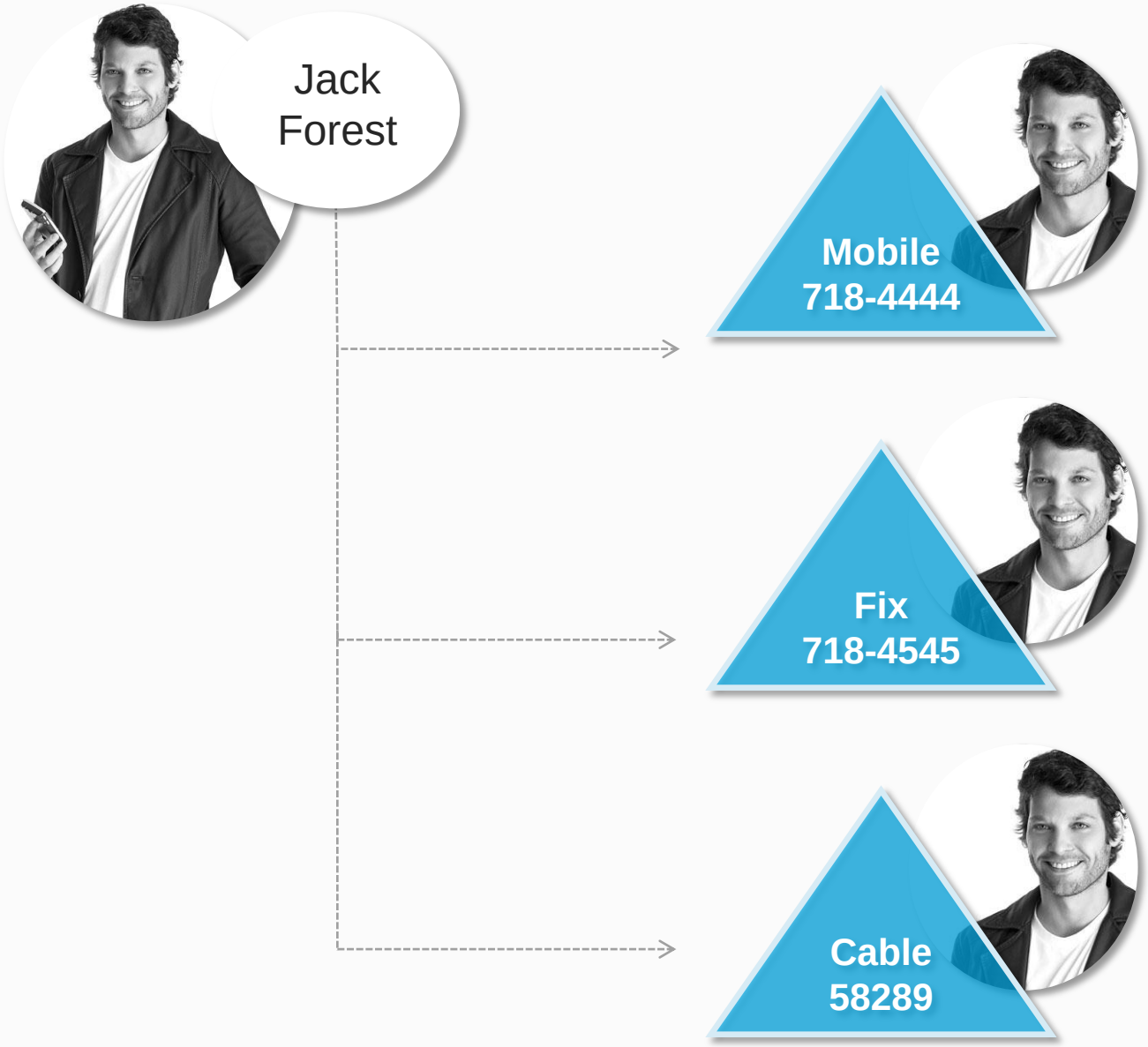
What Is a Subscriber?

Subscriber

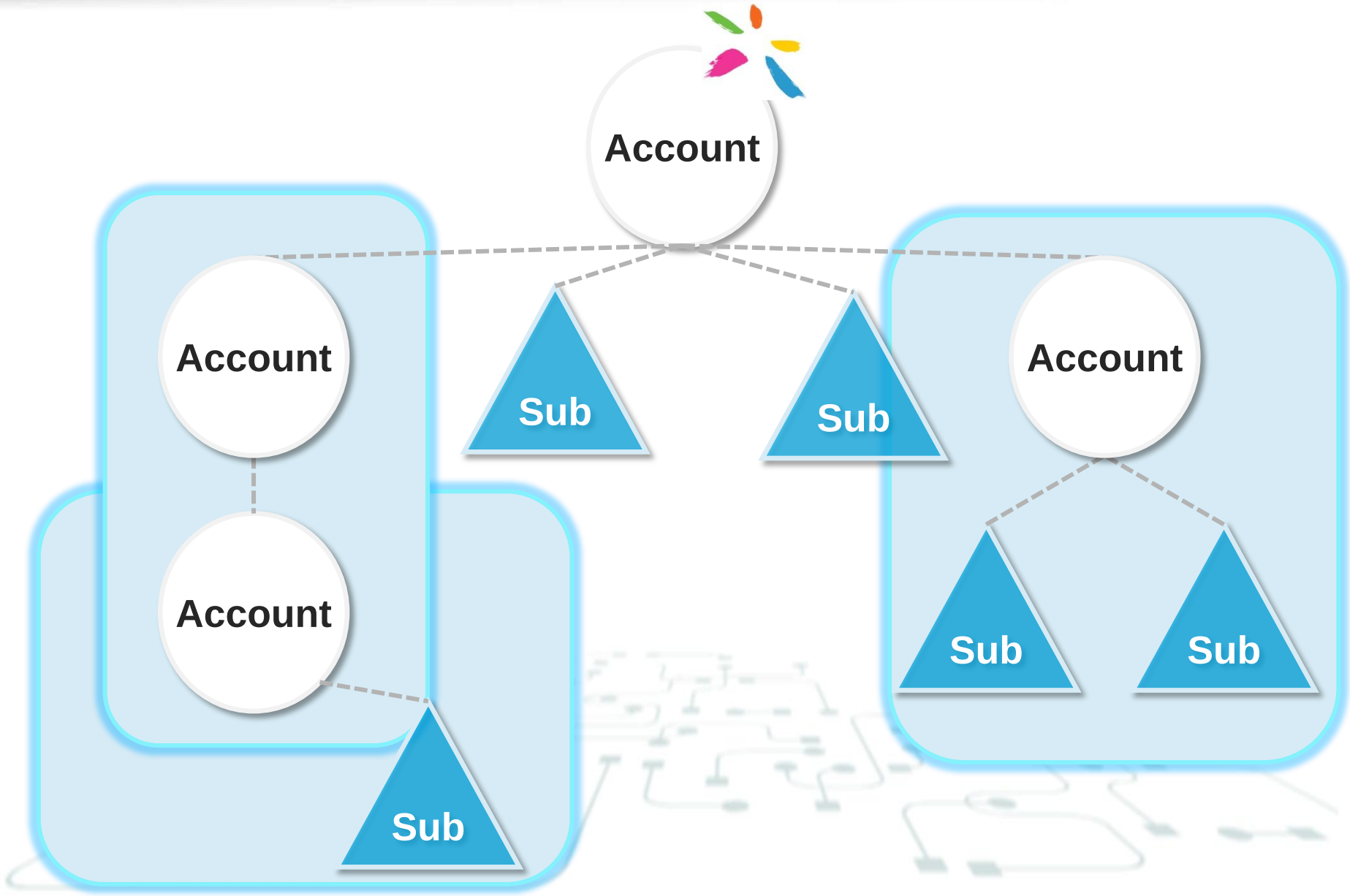
Subscriber and Account Relationship (1)



Subscriber and Account Relationship (2)



Account Hierarchy



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- Introduction to Comverse ONE Data Model
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- **Offers and Bundles**
- Charge Redirection

An Example of an Offer

Offer

Category	Description
Payment Type	Postpaid
Service Category	Mobile
Service Delivery Point	MSISDN (3G cell phones)
Eligibility	Residential Account Category
Voice calls	Peak: $0.10/min Off-Peak: $0.08/min Weekend: $0.05/min
SMS/MMS	0.02/SM, 0.05/MM
Daily Access Fee	$1.00/day
SMS Deal	Pay 5 and get 50 SMs
Promotion Plan	For every 50 peak minutes: Receive 10 SMs and 10 MMs
Birthday Special	Free calls!

What Is an Offer?

Forest Account

Offer

- A saleable entity
- Defines services
- Has a payment mode

Offer

Payment mode: Prepaid

Offer

Payment mode: Postpaid

What Is a Bundle?

Bundle

Bundle = Offer + Offer + Offer

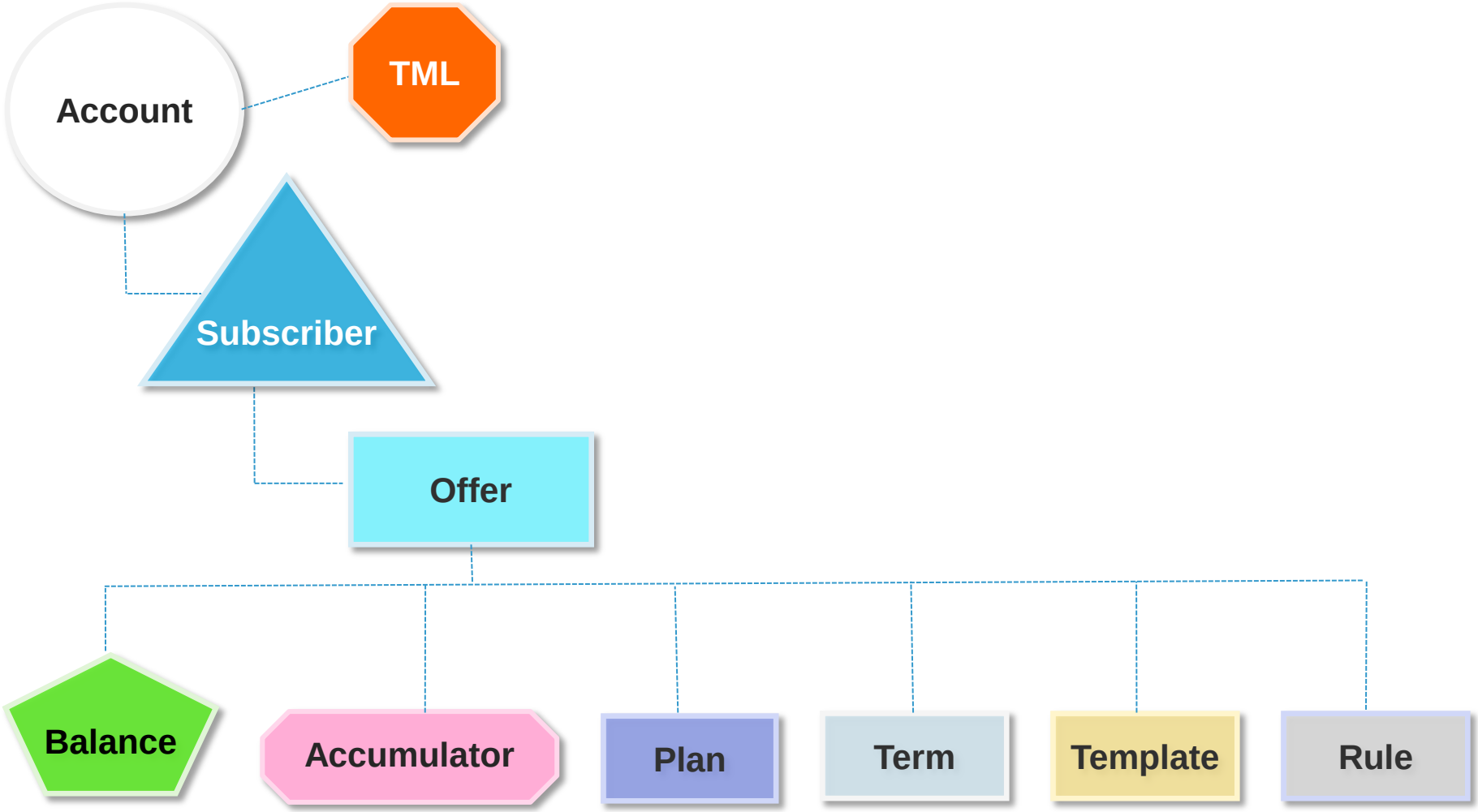
Forest Account

Account Bundle

Mobile 718-4444

Subscriber Bundle

The Building Blocks of an Offer



Plans

Offer

Plan

Enables specific activities, rates, discounts or bonuses for a subscriber

3 types of plans:

Usage	Pay $0.20 for local calls and $0.50 for international calls
Service	Enable call waiting, call ID, receive invoice by mail
Promotion	For every 50 minutes receive 10 SMs 10 discount per month for data services

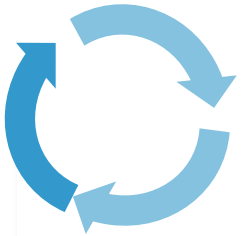
Terms

Offer

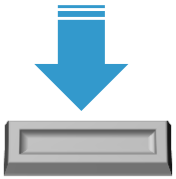
Term

Defines some pricing aspect of the agreement that is represented by the offer

3 types of terms:



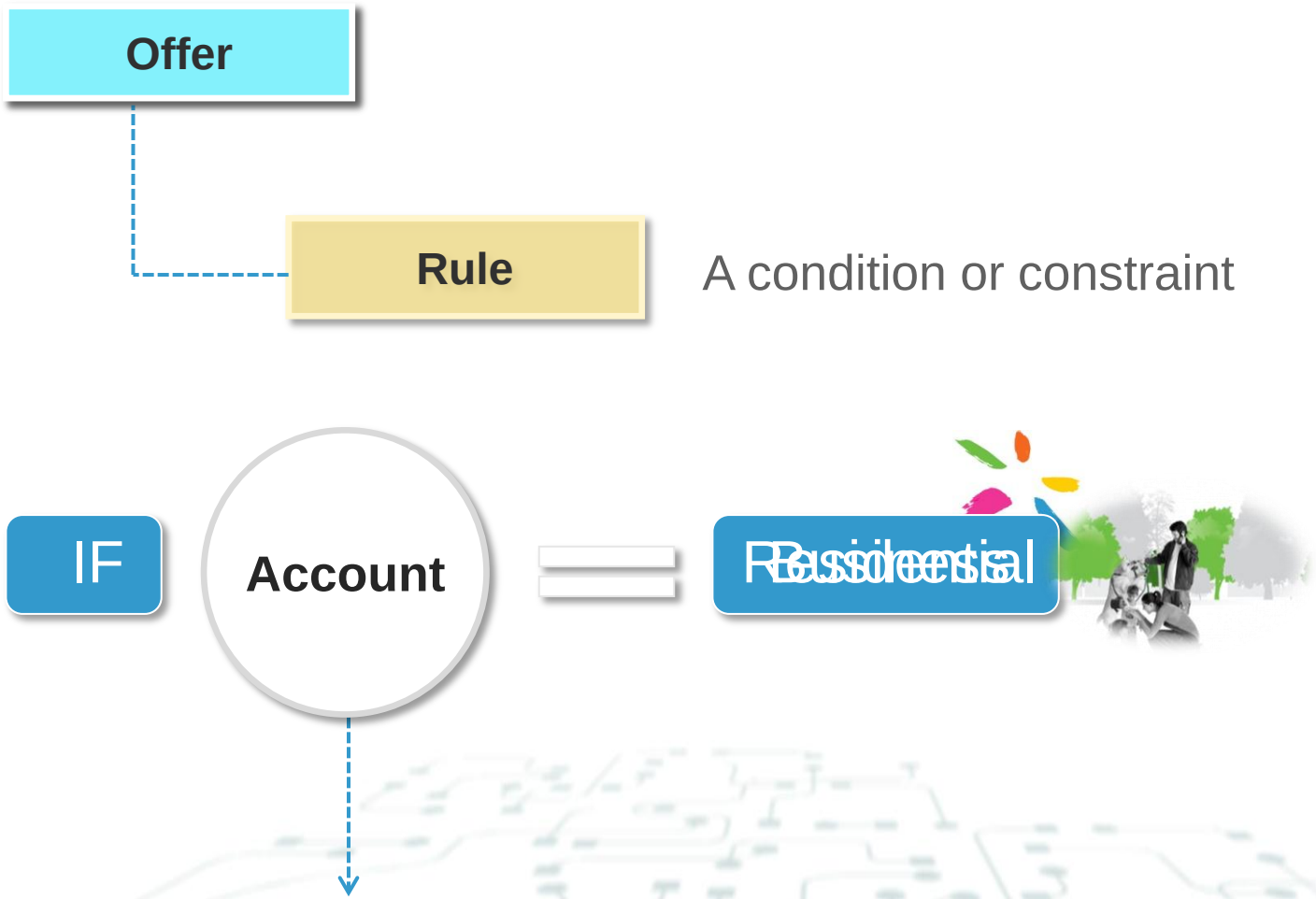
Recurring Charge (RC) – cyclical fee that appears on an invoice regardless of customer use
For example: Monthly fee 10



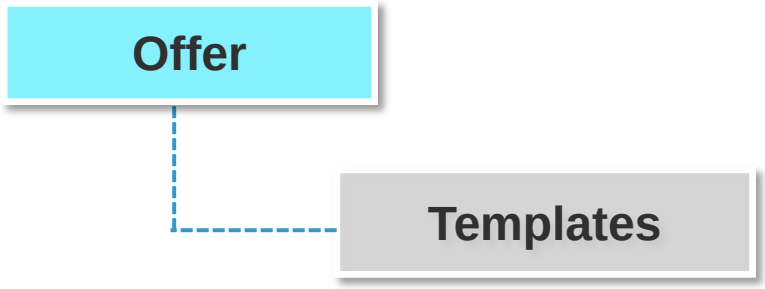
Nonrecurring Charge (NRC) – one-time fee
For example: An installation fee

Contract – the duration of the commitment
For example: Commitment of 12 months

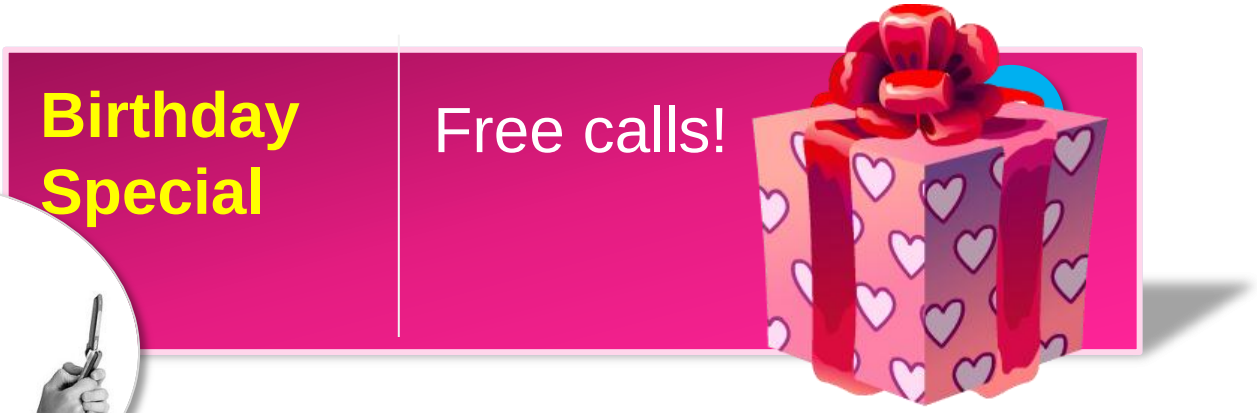
Rules


Offer
Rule
A condition or constraint
IF
Account
Residential

Templates



Aid in the creation of customer accounts or drive configuration of catalog entities

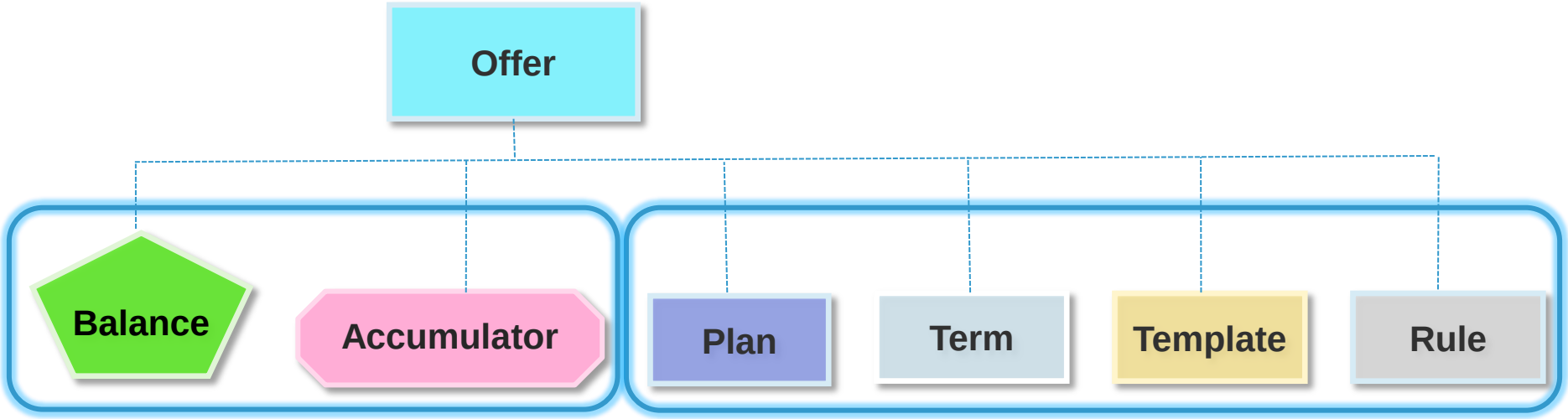


Building Blocks in an Offer

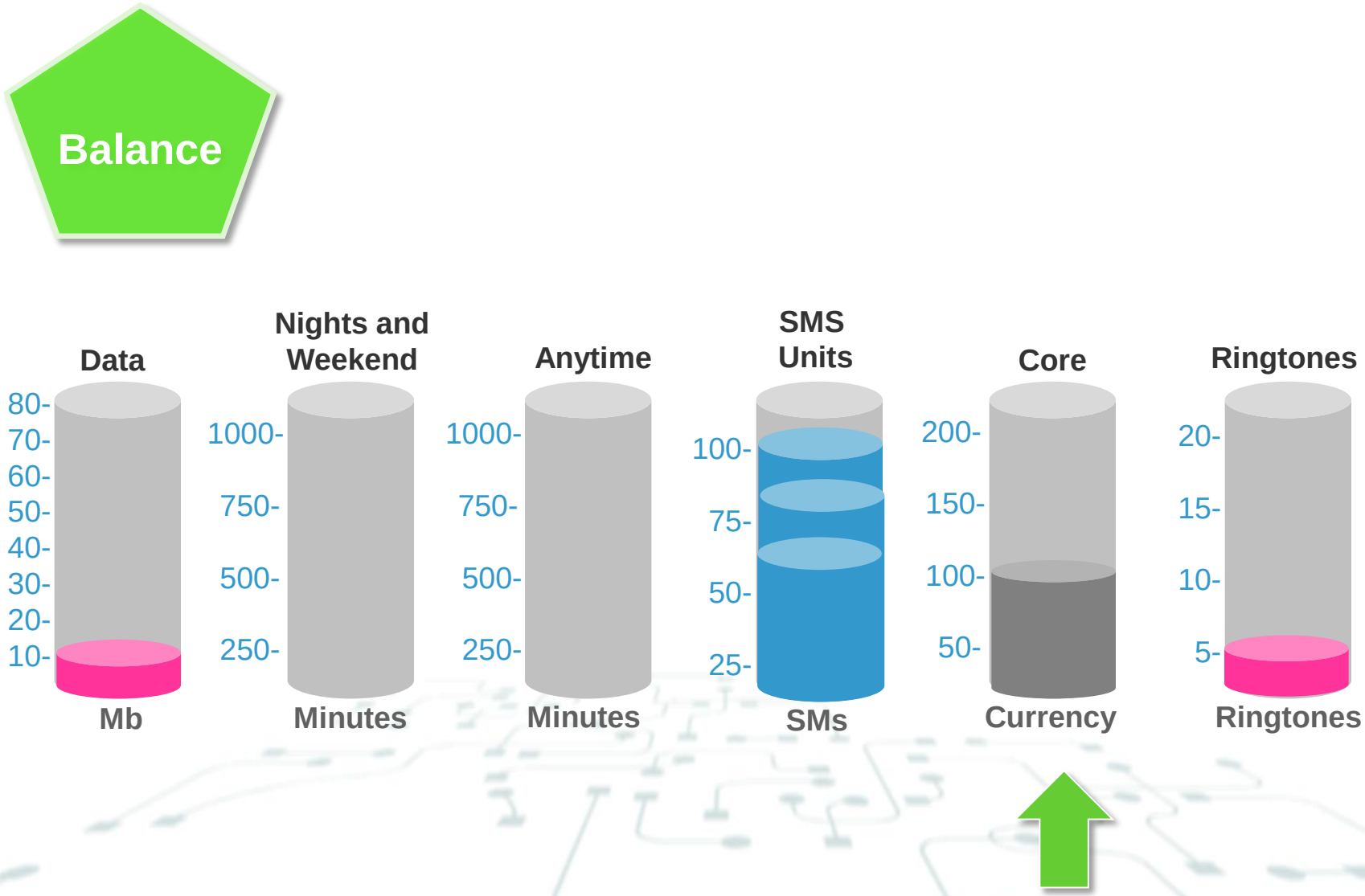
Offer

Category	Description	
Payment Type	Postpaid	
Service Category	Mobile	
Service Delivery Point	MSISDN (3G cell phones)	
Eligibility	Residential Account Category	Rule
Voice calls	• Peak: $0.10/min • Off-Peak: $0.08/min • Weekend: $0.05/min	Plan
SMS/MMS	0.02/SM, 0.05/MM	Plan
Daily Access Fee	$1.00/day	Term
SMS Deal	Pay 5 and get 50 SMs	
Promotion Plan	For every 100 peak minutes: Receive 10 SMs and 10 MMs	Plan
Birthday Special	Free calls!	Template

Where We Are

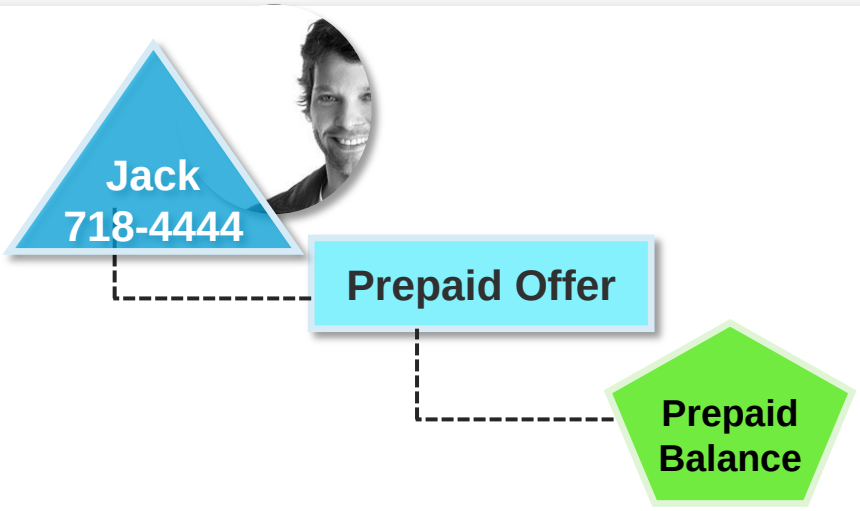


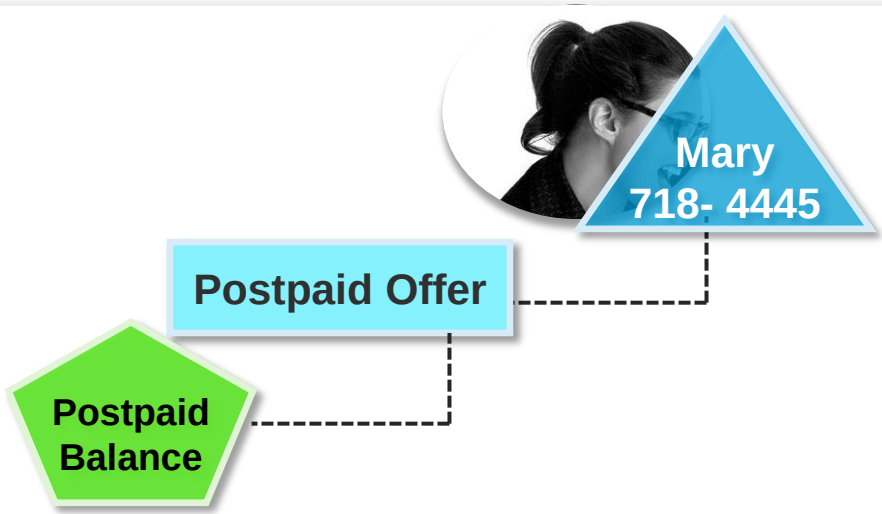
What Is a Balance?



Postpaid and Prepaid Balances (1)

Offer Type	Balances Type
Prepaid offer	Prepaid balances
Postpaid offer	Postpaid balances
Hybrid offer	Set according to the preconfigured payment mode (prepaid or postpaid)





Postpaid and Prepaid Balances (2)

Postpaid Balance

- Used to authorize an activity with actual payment occurring when the customer pays the invoice
- Postpaid monetary balance is cyclical
- Must have a limit

Prepaid Balance

- Represents the reserved holding of funds or units drawn from when a user consumes services
- Has an expiration date

What Is an Accumulator?

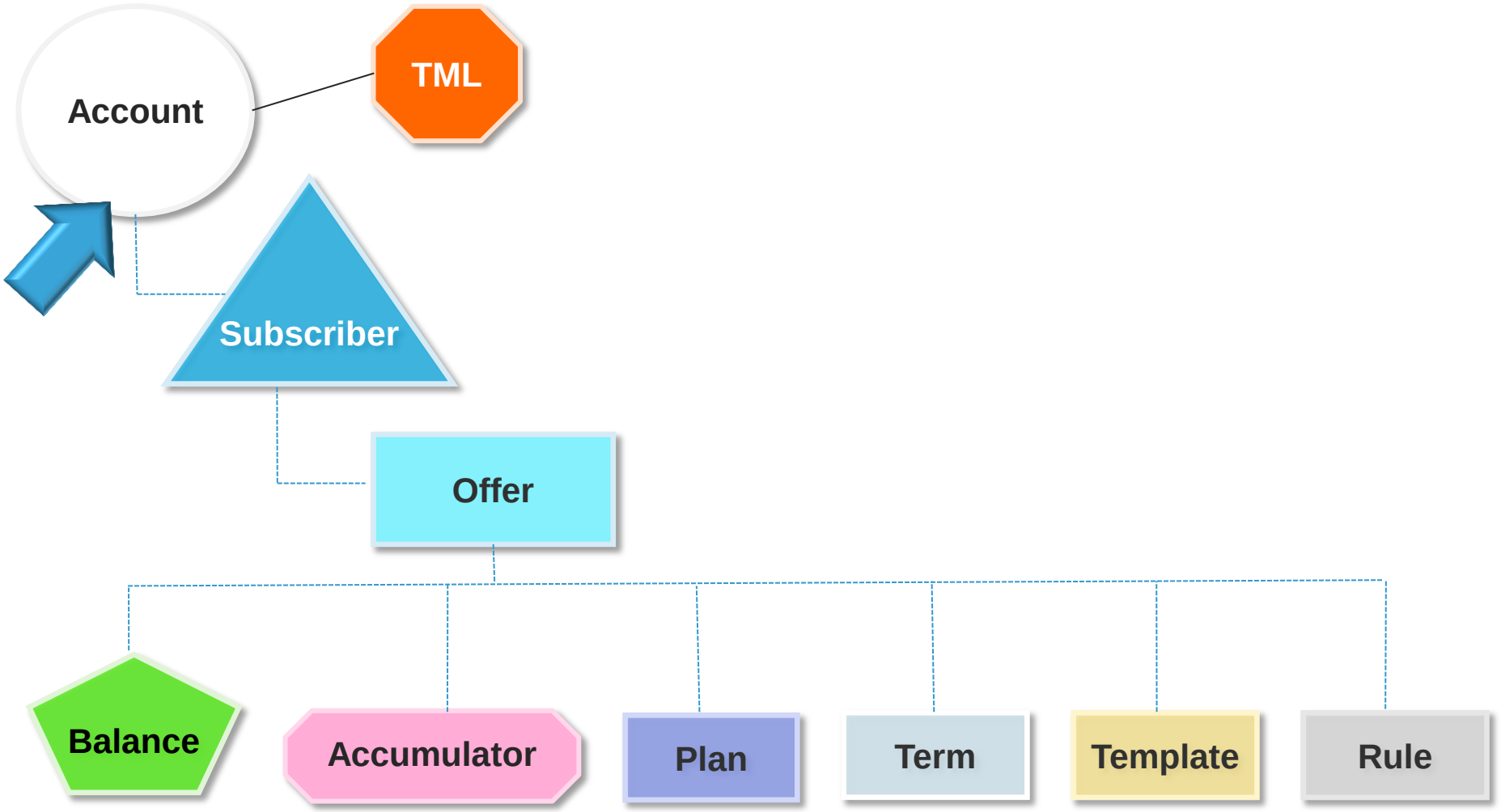
Accumulators are used to define what services and usage are to be measured for a particular award.

Charlie
718- 4446

Offer

Accumulator
Peak min.
1500

Summary – An Account Model



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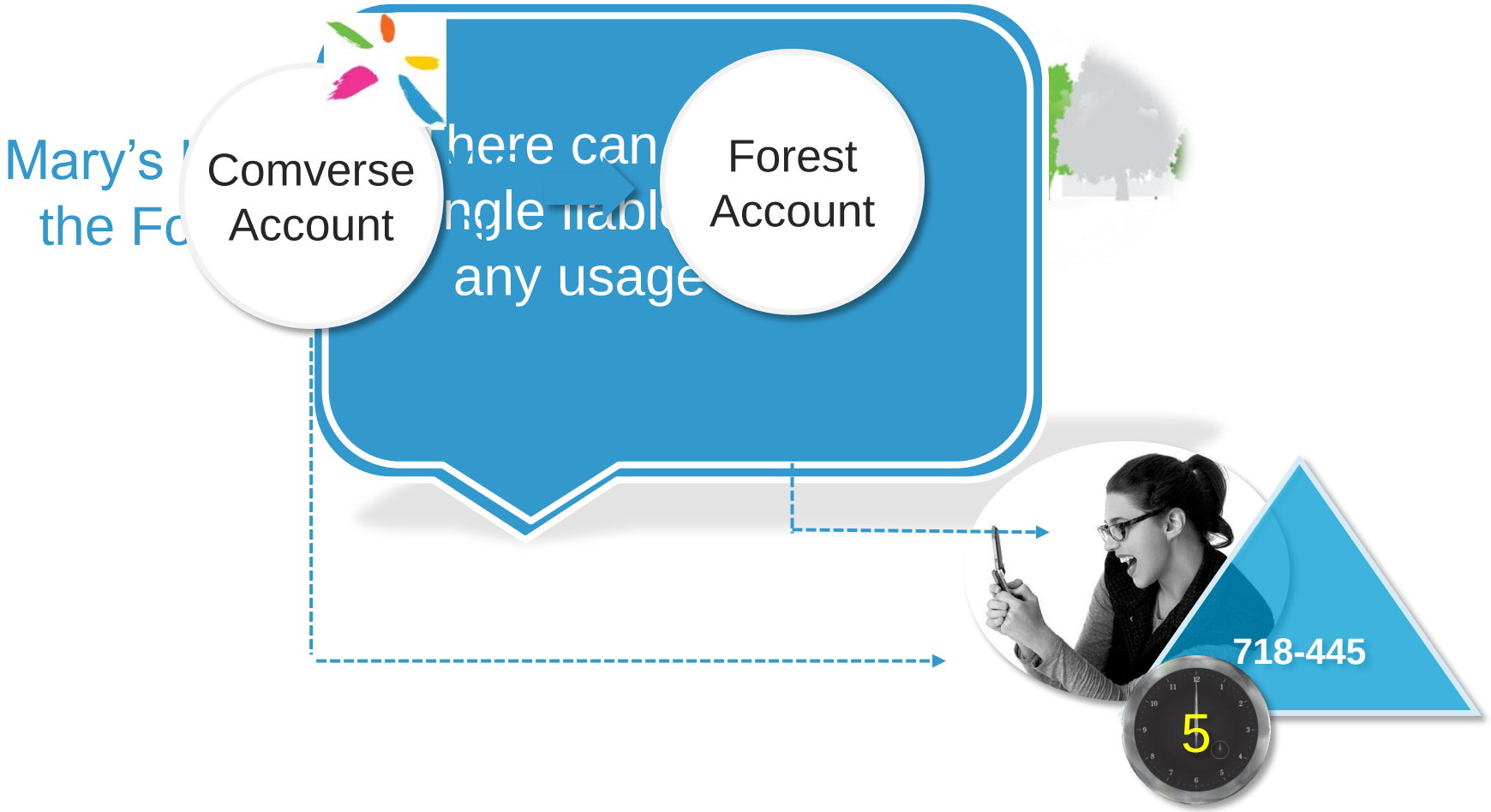
- **Charge Redirection**

What Is Charge Redirection?



Charge Redirection in Comverse ONE

Charge redirection – a charge is paid by an entity other than the one the charge was originally assigned

Shadow balance

Charges for one subscriber balance draw against an account-level balance

Liability redirection:

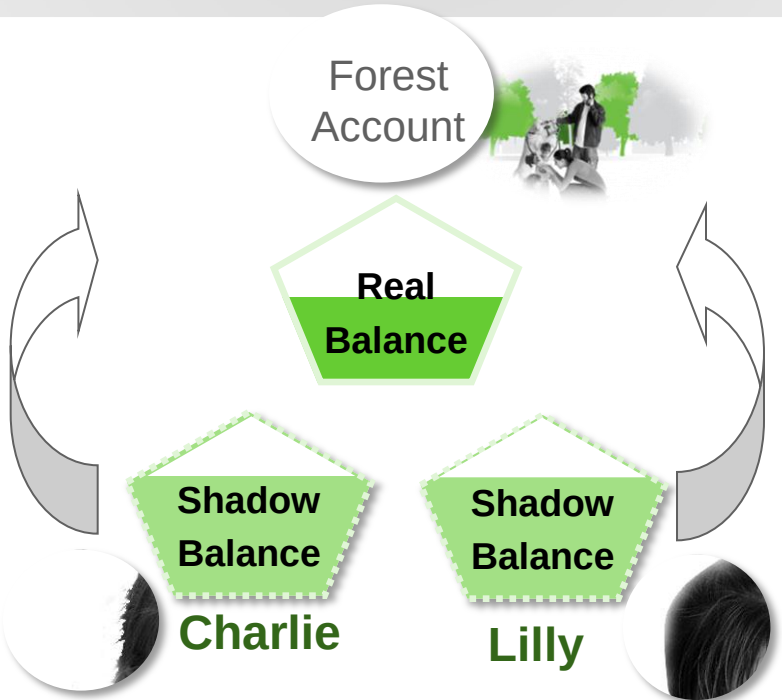
Redirect charges:

- Subscriber to account
- Subscriber to shadow subscriber
- Account to account

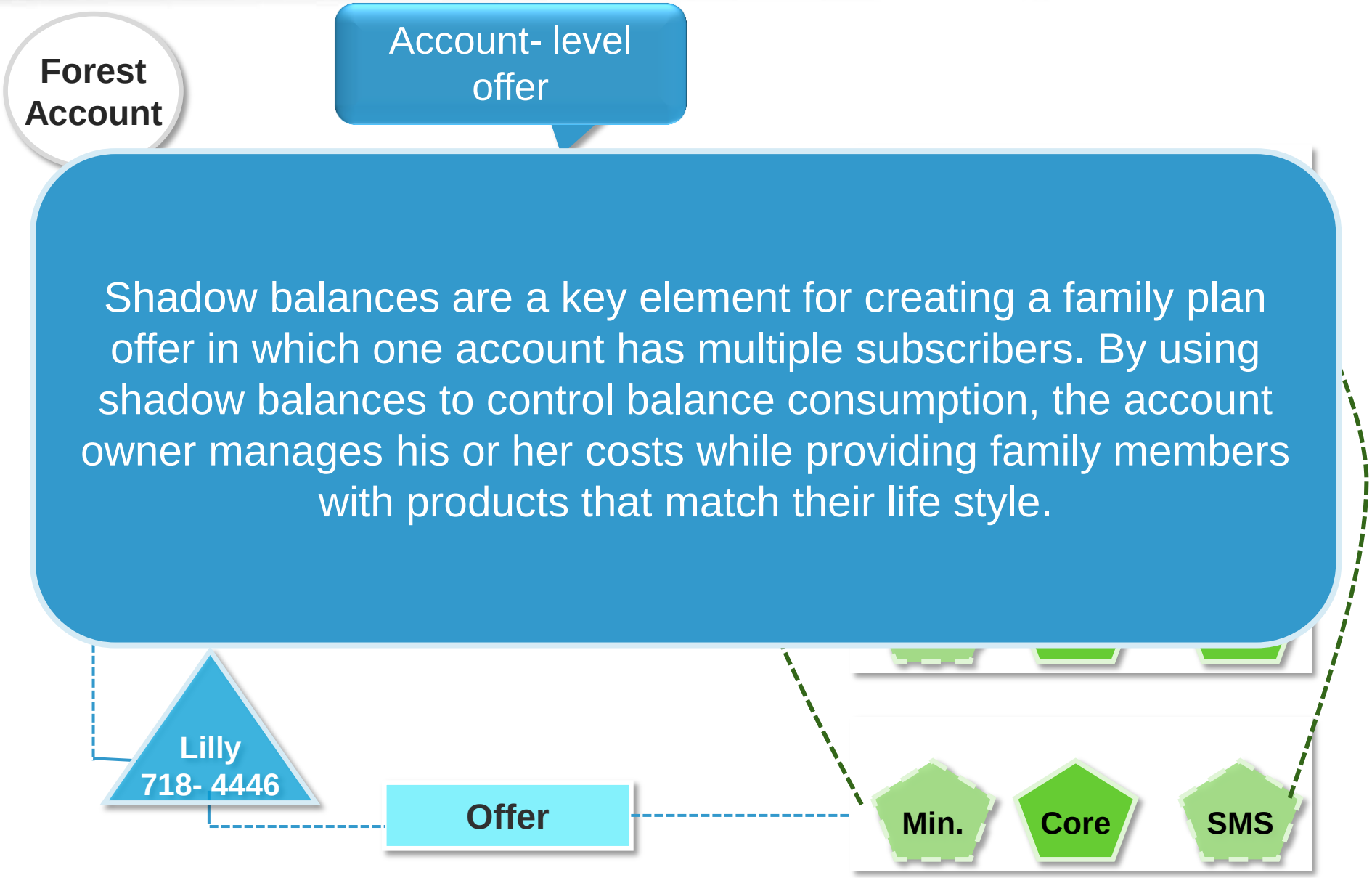
What Is a Shadow Balance?

Shadow Balance

- Allows a subscriber to share units held in a real balance owned by its parent account
- Shadow and real shared balance must have the same units or currency
- Has a limit and a reset cycle
- Exists at the subscriber level only

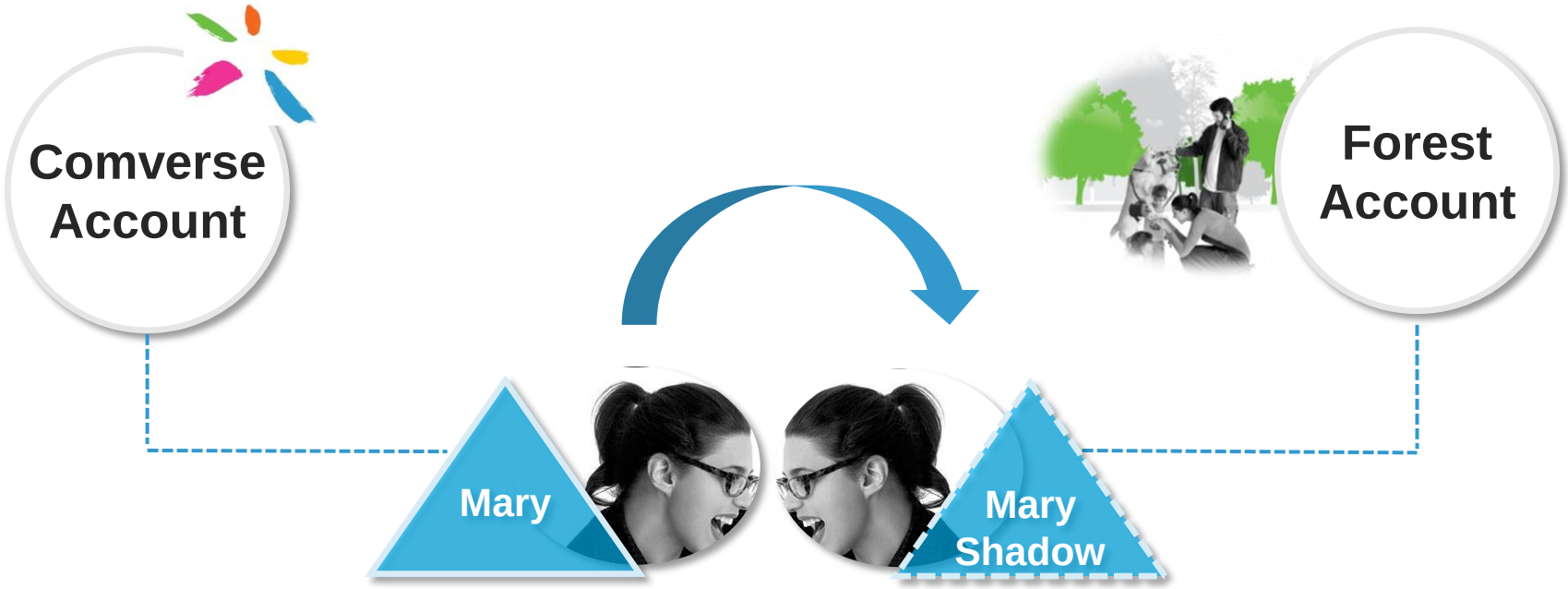


Example of Shadow Balances in a Family Account



What Is a Shadow Subscriber?

A subscriber that you create strictly for the purpose of rating and billing usage redirected from another “real” subscriber



Summary

This lesson has covered:

- The functionality and interfaces of the Data Model
- Data Model entities:
  - Accounts and subscribers
  - Offers and bundles
  - Shadow balances and shadow subscribers