

# Consumer Data Management

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## ABSTRACT

This paper explores the Consumer Data Management, Consumer Data Management (CDM) area as the process and framework for collecting, managing, and analyzing consumer data from various sources in order to form a unified view of each client. Customer data management is the way companies keep track of their customer information and ensure proper and relevant data is obtained.

**KEYWORDS:** CDM, consumer, data, management

**How to cite this paper:** Vrinda Bhateja "Consumer Data Management" Published in International Journal of Trend in Scientific Research and Development (ijtsrd), ISSN: 2456-6470, Volume-4 | Issue-4, June 2020, pp.1486-1488, URL: [www.ijtsrd.com/papers/ijtsrd31555.pdf](http://www.ijtsrd.com/papers/ijtsrd31555.pdf)



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## 1. INTRODUCTION: CONSUMER DATA MANAGEMENT

### WHAT IS CONSUMER DATA MANAGEMENT?

Customer Data Management (CDM) is the way companies track their customer information and survey their customer base to get feedback. CDM encompasses a range of software or cloud computing applications designed to provide quick and effective access to customer data for large organizations. Surveys and data can be centrally located within a corporation, and easily available, as opposed to being housed in different departments. CDM encompasses the collection, analysis, organization, reporting and sharing of information about customers across an organization.

Businesses need a thorough understanding of the needs of their customers if their client base is to be retained and increased. Effective CDM solutions give businesses the opportunity to manage customer problems quickly and get immediate feedback. As a result, marked improvement can be seen in customer retention and customer satisfaction. According to a report Company achieve an annual increase in retention rates, sales, data quality and partner/customer satisfaction levels by more than 21 percent. Customer data management is described as the process and system for gathering, handling and analyzing customer data from various sources. For each customer's unified view. We'll Discuss CDMs, their main components, best practices and popular technology platforms must be given priority by marketers to enable robust customer data management.

**FILEDS OF IMPLEMENTATION** The method of collection, processing, and review of data related to your customers is customer data management. When considering improvements it is a crucial mechanism to:

- Customer acquisition, retention, and satisfaction rates;
- Customer visibility, and communication strategies;
- improved quality of data and higher income.

Acquiring new customers is not an simple job, but your business contact can be powered by a consumer database without you wasting fortune on lame, independent ads.

Twenty percent of the current clients account for 80 percent of revenue. Once at your doorstep, keep your customers by developing a good customer loyalty program that creates personalised, positive experiences to create recurring brand advocates that generate highly valued word of mouth marketing. Your marketing team can only start calculating key metrics such as customer value over time, also known as Customer Lifetime Value (CLV), with a fully functioning customer data management strategy.

By gathering specific consumer data you can further segment your target audience, spot patterns in purchasing behaviour, and personalize individual marketing approaches to better inform the strategic decision-making process in real time.

The purchase process for the consumer can be an complex, unforeseeable process involving several touch points, several devices, online and offline usage and involvement. Every stage of your customer journey is possible to analyze the relevant data collection form in an attempt to identify performers to enhance sales efficiency.

### **SKIP/SCRUB OF DATA**

This avoids significant errors and contradictions which are unavoidable when dragging different data sources into one dataset.

Using data cleaning tools will make everyone more efficient as they will be able to get quickly from the data what they need.

Fewer mistakes mean happier customers, and fewer frustrated staff. The ability to chart the different functions, and what your data is supposed to do and where it comes from your data.

Data integrity is a high-priority concern in computer operating systems and computer storage and data transmission systems writing, reading, storing, transmitting or processing the data. However, only a few of the file systems currently in use and used provide adequate protection against data corruption.

Routine checks of every data inconsistency are provided and the hardware or software failure is, generally speaking, avoided when this problem is addressed. It typically occurs as a method for error detection and memory correcting, disk frames, file systems or FPGAs. This feature is scrubbed.

### **2. TOOLS & TECH. USED**

For Consumer data Management we use different tools for different steps, all the tools very powerful to manage and analyze data we have.

#### **MICROSOFT EXCEL**

Microsoft Excel is an application for Microsoft Windows, which Microsoft has developed and distributed on Mac OS X and Windows. Written for Microsoft Windows in 2010 and for Mac OS X in 2011, it was created on the basis of the Microsoft Excel. Microsoft Excel is a tool that enables measurement and evaluation of and combination of data from the different programs in a tablet.

#### **SQL**

SQL is a programming database language built in the relationship domain for data collection and management. SQL reflects Standardized Language query. It covers many of the topics needed to understand SQL basically and gain an insight into how it functions. SQL is the Relational Database System's basic language. SQL is used as their standard database language in all Relational Database Management Systems (RDMS) such as MySQL, Ms Access, Oracle, Sybase, Informix, Postgres and SQL Server.

#### **PYTHON**

The Dutch programmer Guido Van Rossum invented Python in 1991. It is a language that is interpreted. Instead of depending on more complex machine languages, it has an interpreter to run the program directly. Van Rossum actually wants to make Python so plain and understandable at the end. He also opened the language, meaning that everyone can participate and he hopes it is as strong as competing languages. It is often used in Web applications as a "scripting language." That means it can automate specific series of tasks and make them more efficient. Consequently, Python (and other languages) is commonly used in software

applications, web browser sites, operating system shells, and some games.

#### **MULESOFT**

The world's leading integration framework for SOA, SaaS and APIs, MuleSoft's Anypoint Platform TM. MuleSoft provides companies with exceptional business agility by connecting applications, data and devices with an API-led approach, both on-premises and in the cloud. Through using the Anypoint Framework, businesses can rearchitect their SOA infrastructure from old frameworks, proprietary technologies and personalized business agility integration code.

### **3. STEPS INVOLVED IN CONSUMER DATA MANAGEMENT**

While consumer data managements projects vary in shape and size, they typically include four key steps.

#### **STEP 1: DATA COLLECTION & INTEGRATION**

This is the first step towards building a strategic and integrated data management strategy for customers. There is a data drift in most businesses today in which thousands of data points across different networks, platforms and devices from thousands of consumer contact points reach the network. To order to efficiently develop a structure for consumer data management, marketers first have to consider what information will be used within the system.

Understanding the different sources of critical data is followed by putting it into a central system to run it through a process called ETL or 'Extract, Transform, Load' — ingesting critical data, 'transforming' it in terms of basic duplication and formatting, and loading — which refers to putting all critical data into the preferred central marketing data platform such as da The result is-all the data you need, in one location, in one format.

#### **STEP 2: DATA MANAGEMENT**

This is the second step it Refers to the process of connecting the dots between the data points to start the creation of complete, coherent customer or segment profiles. This would involve processes such as probabilistic or deterministic identity resolution, building identity graphs, 360-customer profiles and integrating consent into customer data to ensure compliance with the first-party data for martech applications. In the case of adtech applications that need to be used through a DMP, the data needs to be anonymised in order to create segments with 'look-alike.'

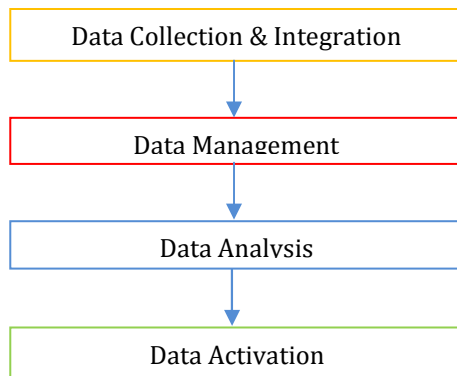
#### **STEP 3: DATA ANALYSIS**

Data is ready for use at this point. Marketers may build different parts of consumer profiles similar to their looks; carry out predictive analyzes to model future campaign outcomes, etc. Intelligent systems will also start recommending for each customer the next best steps and customized data-driven interactions and experiences.

#### **STEP 4: DATA ACTIVATION**

It is important to have all the data in one place, even if it is organized into consolidated consumer profiles, but not enough to ensure that the data can then be used to execute well-orchestrated marketing campaigns across channels. The last mile of a complete customer data management strategy also shows how data will actually be transferred to marketing technology systems and used to run data-driven

marketing campaigns. In order to do this, marketing systems need to be integrated not only with data and with each other, but also with performance tracking and analytical systems to optimize campaigns in real time.



#### 4. BENIFITS OF CONSUMER DATA MANAGEMENT

In any company customer data is so critical that businesses spend millions on obtaining more information about their customers. This is important if an company in the service sector wants to be able to better serve its customers so that consumers can return to them for more services. The pattern of customer purchases and the period in which they purchase certain goods play an important role in the warehouse stockpile of such goods. Specialized customer relations management software is on the market.

- Will have a cost-effective, user-friendly promotion, analysis, distribution, human resources and IT services solution
- Allows companies to build and submit electronic surveys, newsletters and reports
- Requires and simplifies the management of customer relations (CRM) and customer feedback (CFM) management;

#### 5. CONCLUSION

Based on the research, the proponent concluded the following-

1. Customer Data Management seeks to gather data and then handle it by various removals, avoid data scrubbing along with analytics.
2. Provides a cost-effective, user-friendly solution for marketing, research, sales, human resources and IT departments.
3. CDM encompasses and simplifies the management of customer relations (CRM) and customer feedback (CFM);

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