ABSTRACT

Systems and methods for automatically managing and utilizing the uniform labeling of data packages are disclosed. Specification information can describe many aspects of a data package, and can be analyzed to automatically identify various product attributes and service attributes usable to define the data package. Each of the individual product attributes and service attributes can be encoded into an alphanumeric code, which can be concatenated together to form a single uniform package identifier (UPID) usable to describe the associated data product. Systems and methods can automatically generate UPIDs, automatically find data packages based on search UPIDs, automatically process invoices based on UPIDs, and otherwise leverage the UPIDs to automate the collection, creation, selling, purchasing, trading, redistribution, and/or using of data packages.