

## Code to Update Picklist Values on Package Upgrade

```
public class UpdateFieldValues {

    @TestVisible
    private static Map<String, Picklist_Field_Definition__mdt> fieldValueMap = new Map<String,
Picklist_Field_Definition__mdt>();
    public static void GetFieldValues(){
        List<Picklist_Field_Definition__mdt> fieldValueList = [SELECT
Id,Field_Name__c,MasterLabel,Field_Type__c,Field_Value__c,ObjectName__c FROM
Picklist_Field_Definition__mdt ];
        for(Picklist_Field_Definition__mdt pfd :fieldValueList ){
            fieldValueMap.put(pfd.MasterLabel,pfd);
        }
    }

    public static void UpdateFieldValues(){
        GetFieldValues();
        for(String key : fieldValueMap.keySet()){
            UpdateMetadata(fieldValueMap.get(key).ObjectName__c
+ ':' +fieldValueMap.get(key).Field_Name__c,fieldValueMap.get(key).Field_Value__c);
        }
    }

    public static void UpdateMetadata(String picklistApiName, String newValue){
        try {
            MetadataService.MetadataPort service = new MetadataService.MetadataPort();
            service.SessionHeader = new MetadataService.SessionHeader_element();
            service.SessionHeader.sessionId = UserInfo.getSessionId();
            MetadataService.CustomField customField = (MetadataService.CustomField)
service.readMetadata('CustomField', new String[]{
                picklistApiName
            }).getRecords()[0];

            System.debug('customField' + JSON.serialize(customField));
            Map<String, String> existingValues = new Map<String, String>();

            for (MetadataService.CustomValue objCustomValue : customField.valueSet.valueSetDefinition.value) {

                existingValues.put(objCustomValue.fullName, objCustomValue.label);
            }
            MetadataService.CustomValue objCustomValue = new MetadataService.CustomValue();
            objCustomValue.fullName = newValue;
            objCustomValue.label = newValue;
            objCustomValue.default_x = false;
            objCustomValue.isActive = true;
            if (existingValues.get(newValue) == null) {
                customField.valueSet.valueSetDefinition.value.add(objCustomValue);

                List<MetadataService.SaveResult> lstResults = service.updateMetadata(new
MetadataService.Metadata[]{
                    customField
                });
                for (MetadataService.SaveResult objResult : lstResults) {
                    if (objResult.success) {
                        System.debug('Successfully updated');
                    } else {
                        if (objResult.errors.size() > 0) {
                            System.debug('error : ' + objResult.errors[0].message);
                        }
                    }
                }
            }
        } catch (Exception e){
            System.debug( 'Error for Object' + picklistApiName+ 'error');
        }
    }

    public class MetadataServiceExamplesException extends Exception {}
}
```