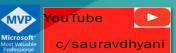
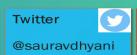


# 53'RD 07-08-2021

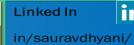
**C/AL & AL Upgrade Codeunits.** 



















## **WHERE DO I REGISTER?**

#### **Register Here**

http://bit.ly/msdyn365bcopendiscussion

#### **Meeting Attendees**

If you would like to be default attendee for future meeting, please drop your name & Email address in chat during meeting.



#### SAURAV DHYANI - #MSDYNNAV & #MSDYN365BC

Hi All.

Welcome to #bcopendiscussion registration page.



We all are glad to see you attending our next meeting. Its a great place to discuss about business central.

It's free for all. No Sponsor's! & No Marketing.

- 25 Meeting in 2020 with 522 Registered and 207 Attendees.
- · A Total of 80 Questions were discussed in 2020.

We will be happy to add more presenters. If you want to be the presenter please let us know.

#### Next Meeting Details - 22/May/21

- · Link To Register.
- Register Link Expires 21 May 2021 (03:00 PM IST)
- · Topic Open Discussion.
- Time 09:30 PM to 10:30 PM (IST)
- · Questions Add Here.





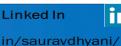


Twitter











Blog





# WHY UPGRADE CODEUNIT?

Old Upgrade Routine -

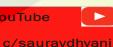
### Two Steps -

Step 1(old Version)

Step 2 – (New Version)

```
UpdateSalesHeader(VAR StateIndicator : Rec
                                              UpdateInventorySetup(VAR StateIndicator : Record Table104037)
WITH SalesHeader DO
  IF StateIndicator.UpdateTable(TABLENAME) WITH InventorySetup DO
                                               IF StateIndicator.UpdateTable(TABLENAME) THEN BEGIN
    TimeLog.TimeLogInsert(TimeLog.TABLENA)
    IF FINDSET(TRUE) THEN
                                                  TimeLoq.TimeLoqInsert(TimeLoq,TABLENAME,TRUE);
                                                 IF FINDSET(TRUE) THEN
        StateIndicator.Update;
                                                   REPEAT
        "Service Mat. Document" := FALSE:
                                                     StateIndicator.Update:
        "Expiration Date" := 0D;
                                                     "Average Cost Calc. Type" := "Average Cost Calc. Type" + 1;
        "CP Status" := "CP Status"::"0";
                                                     "Average Cost Period" := "Average Cost Period" + 1:
        "Auto Created" := FALSE;
        "Login ID" := '';
                                                     MODIFY:
        "Web Site Code" := '';
                                                   UNTIL NEXT = 0;
        MODIFY:
                                                  TimeLog.TimeLogInsert(TimeLog.TABLENAME.FALSE):
      UNTIL NEXT = 0;
                                                 StateIndicator.EndUpdateTable(TABLENAME);
    TimeLog.TimeLogInsert(TimeLog,TABLENAM
    StateIndicator.EndUpdateTable(TABLENA)
  END;
                                              UpdateAccountingPeriod(VAR StateIndicator : Record Table104037
UpdateSalesLine(UAR StateIndicator : Recor IF NOT InventorySetup.GET THEN
WITH SalesLine DO
 IF StateIndicator.UpdateTable(TABLENAME) WITH AccountingPeriod DO BEGIN
                                                InventorySetup.INIT;
    TimeLog.TimeLogInsert(TimeLog,TABLENA)
                                                SETRANGE("New Fiscal Year".TRUE):
    IF FINDSET(TRUE) THEN
                                                IF StateIndicator.UpdateTable(TABLENAME) THEN BEGIN
      REPEAT
        StateIndicator.Update;
                                                 TimeLog.TimeLogInsert(TimeLog,TABLENAME,TRUE);
        "Service Contract No." := '':
                                                 IF FINDSET(TRUE) THEN
        "Service Order No." := '';
                                                   REPEAT
        "Service Item No." := '';
                                                     StateIndicator.Update;
        "Appl.-to Service Entry" := 0:
                                                     "Average Cost Calc. Tupe" := InventoruSetup."Average Cost Calc. Tupe":
        "Service Item Line No." := 0:
                                                     "Average Cost Period" := InventoruSetup."Average Cost Period";
        "Serv. Price Adjmt. Gr. Code" :=
        "Appl.-to Job Entry" := 0;
                                                     MODIFY:
        "Job Applies-to ID" := '';
                                                   UNTIL NEXT = 0:
        CheckAssocPurchOrder := FALSE:
                                                  TimeLog.TimeLogInsert(TimeLog,TABLENAME,FALSE);
        MODIFY:
                                                 StateIndicator.EndUpdateTable(TABLENAME);
      UNTIL NEXT = 0;
    TimeLog.TimeLogInsert(TimeLog,TABLENAM
    StateIndicator.EndUpdateTable(TABLENAM END;
  END:
                                                                        AU IU IU IUPUI UUL ITUT EUUS ULLE
```









@sauravdhyani







# **WHAT UPGRADE CODEUNIT ARE?**

**U**pgrade codeunits when you make **changes to a table definition**, either from the Microsoft Dynamics NAV Development Environment or during an upgrade.

A single upgrade Codeunit will typically contain table schema synchronization instructions and data migration logic for multiple tables that have changed from one version of Dynamics NAV to another.

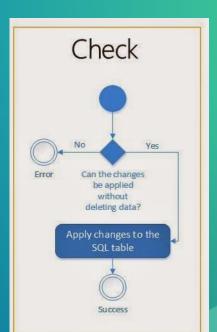
#### Three Main Parts -

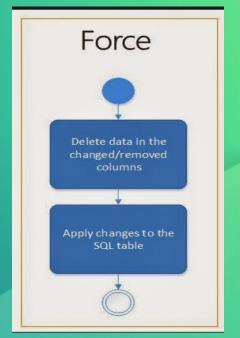
- CheckPreCondition
- TableSyncSetup
- UpgradePerCompany and/or UpgradePerDatabase

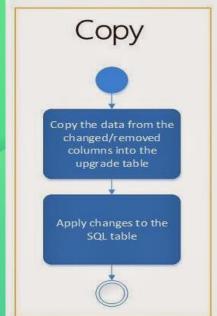


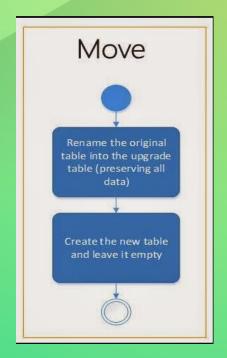


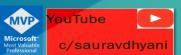
## **TABLE SYNC SETUP MODES.**





















## **UPGRADE FUNCTIONS.**

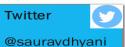
## **UpgradePerCompany**

- these functions are run for all companies in the database.
- typically use this type of function when the data in the table that you upgrading is company-specific.

## **UpgradePerDatabase**

- These functions are executed once during an upgrade process
- Typically use an UpgradePerDatabase function when the data in the table that you are upgrading is not company-specific.









### #bcopendiscussion

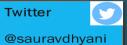
# AL Upgrade Codeunit.

An upgrade is defined as enabling an extension that has a greater version number, as defined in the app.json file, than the current installed extension version.

#### Upgrade Triggers -

- OnCheckPreconditionsPerCompany() & OnCheckPreconditionsPerDatabase()
  - Used to check that certain requirements are met before the upgrade can be run.
- OnUpgradePerCompany() & OnUpgradePerDatabase()
  - Used to do the actual upgrade.
- OnValidateUpgradePerCompany() and OnValidateUpgradePerDatabase()
  - Used to check that the upgrade was successful.













**Thank You!** 

See You Next Week

www.sauravdhyani.com



http://bit.ly/msdyn365bcopendiscussion







