

User Guide for Microsoft Dynamics 365 Business Central

Product: SD Billing Engine

Release: D365 BC V21+

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2 Getting Started

SD Billing Engine is a generic billing engine that can generate sales invoices from three sources or elements:

- Recurring contract setups with fixed recurring charges linked to a customer.
- Activity based entries either generated in Microsoft Dynamics 365 Business Central linked to the item ledger entry, or, imported into Microsoft Dynamics 365 Business Central.
- Manual entries which are items and events logged by users.

Using SD Billing Engine, you can bill:

- Fixed contract (recurring) set fees and invoice monthly. For example, warehouse space fees, annual software support fees, recurring management charges.
- Activity based billing either imported from an external source, or, generated from your item ledger entry based on activity in the period selected. For example, accepting delivery to a warehouse, receiving goods in.
- Manual event logging for special charges. For example, special haulage costs, inspection certs, pallet rebuilds, splitting out pallets, backup restore events.

For each of the three sources, there is a default suggest billing handler calculation Codeunit. Using your setup, you can vary the suggest billing handler Codeunit to your own specific requirements. For the activity element setup there is also a get entries handler Codeunit that can be varied for your specific custom logic.

Note: The activities that you are billing in the item ledger entry for activity based elements are billed on behalf of a third-party customer. You are billing the third-party customer, not the customer or vendor on the item ledger entry source line.

The item defines who you are billing, not the vendor or the customer. The item is unique to the customer. Each item for which the transaction is billable should be stamped with a customer dimension (Customer No.). Any item that you do not want to bill, can be left unstamped. Service items are ignored for activity based billing.





3 Security Setup

We have provided the following permission sets for SD Billing Engine: SDYUBADMIN, SDYUBUSER and SDYUBVIEW (*Figure 3-1*).

E 4	ermission Set Looku	up			Ľ
			sdy ub	<	
	Permission Set 1		Name	Extension Name	Scope ↑
_	→ <u>SDY UB ADMIN</u>	÷	SD Billing Engine - Admin	SD Billing Engine	System
	SDY UB USER	÷	SD Billing Engine - User	SD Billing Engine	System
	SDY UB VIEW		SD Billing Engine - View	SD Billing Engine	System

Figure 3-1

We have also created extensions on the following standard Microsoft Dynamics 365 Business Central Permissions:

- Exten. Mgt. Admin includes SDYUBADMIN permissions.
- D365 BUS FULL ACCESS includes SDYUBUSER permissions.
- D365 BASIC includes SDYUBVIEW permissions.

Note: Users who do not use SD Billing Engine but who post Sales Invoices in Microsoft Dynamics 365 Business Central and are not granted the D365 BUS FULL ACCESS permissions will need to have read permission granted to the SDY UB Billing Engine Setup table.





4 Installing SD Billing Engine

To install **SD Billing Engine** from the Business Administration Shell:

- 1. Run the Business Central Administration Shell as Administrator.
- 2. To publish the extension from the package file (.app), use the **Publish-NAVApp** cmdlet.

Example: Publish-NAVApp -ServerInstance BC170 -Path "C:\Users\name\Downloads\Simply Dynamics Ltd_SD Billing Engine_3.3.1.0.app"

3. To synchronise the schema changes, use the **Sync-NAVApp cmdlet**.

Example: Sync-NavApp -ServerInstance BC190 -Name "SD Billing Engine"

4. To install the published NAV App, use the **Install-NAVApp cmdlet**.

Example: Install-NAVApp -ServerInstance BC190 -Name "SD Billing Engine"

5. Open your Dynamics 365 Business Central Web Client and use the **Tell Me** to search for **Extension Management** (*Figure 4-1*).

								٩	۵	Ø	?	
nt	TELL ME WHAT YOU WANT TO DO		2	\times								
1	extension			×				2				
	Go to Pages and Tasks			_								
L	> Extension Management	Administration		П	+ Sales Credit Memo Tasks	SalesReports	> History					
-	Didn't find what you were looking for? Try exploring											
)2	+											
			-	-				-	-	-	-	



6. In the Extension Management list, you should see the SD Billing Engine App installed.





4.1 Allowing HttpClient Requests in SD Billing Engine

Switching on the **Allow HttpClient Requests** option allows SD Billing Engine to call an API that sends and returns licence key information to activate the product licence and to call GitHub to import sample data for the product. By default, the **Allow HttpClient Requests** option is switched on during installation of the product.

1. Open your Dynamics 365 Business Central Web Client and use the **Tell Me** to search for **Extension Management** (*Figure 4-2*).

								٩	۵	Ø	?	1
	TELL ME WHAT YOU WANT TO DO		2	\times								
	extension			×				2				
	Go to Pages and Tasks			_								
	> Extension Management	Administration		П	+ Sales Credit Memo > Tasks	> Sales > Reports	> History					
	Didn't find what you were looking for? Try exploring			_		7 Reports						
~	+											
			-	-				-	-	-		

Figure 4-2

2. In the **Extension Management** list, you should see the **SD Billing Engine** App installed (*Figure 4-3*).

2	Extension Management						Ľ	
	Search Manage	Actions Fewer option	ns			ß	7	
	🗿 Extension Marketplace	🗟 Deployment Status	🔆 Uninstall	🗳 Configure	Refresh			
	Dupload Extension	^{≩™} Install	🖮 Unpublish	🚺 Download Source				
	Publisher	Name †		Version				
	Installed	OnPrem Permissions		v. 19.0.29894.31302				
	Installed	PayPal Payments Standa	rd	v. 19.0.29894.31302				
	Not Installed	Performance Toolkit		v. 19.0.29894.31302				
	Not Installed	Permissions Mock		v. 19.0.29894.31302				
	Installed	Recommended Apps		v. 19.0.29894.31302				
	Installed	Sales and Inventory Fore	ecast	v. 19.0.29894.31302				
	Installed	SD Billing Engine		v. 3.3.1.0				
	Installed	SD Bulk Mailer		v. 9.1.11.0				1
	Installed	SD Case Manager		v. 3.0.7.0				
	Installed	SD Credit Controller		v. 10.0.0.0				
	Installed	SD Data and GDPR Man	ager	v. 3.0.1.0				
	Installed	SD Data Export		v. 1.1.0.0				
	Installed	SD Document Pack		v. 3.4.2.0				

Figure 4-3





3. Select the **SD Billing Engine** App record and from the action bar, select the **Manage** group, and choose **Configure** (*Figure 4-4*).

Extension Management				
Search Manage	Actions Fewer options			r B
🗃 Extension Marketplace	👌 Deployment Status 🛛 🔭 Uninstall	📌 Configure	🔒 Learn More	
🔓 Upload Extension	🖗 Install 🔅 Unpublish	Download Source	🗒 Refresh	
Publisher	Name †	Version		
Installed	OnPrem Permissions	v. 19.0.29894.31302		
Installed	PayPal Payments Standard	v. 19.0.29894.31302		
Not Installed	Performance Toolkit	v. 19.0.29894.31302		
Not Installed	Permissions Mock	v. 19.0.29894.31302		
Installed	Recommended Apps	v. 19.0.29894.31302		
Installed	Sales and Inventory Forecast	v. 19.0.29894.31302		
Installed :	SD Billing Engine	v. 3.3.1.0		
Installed	SD Bulk Mailer	v. 9.1.11.0		
Installed	SD Case Manager	v. 3.0.7.0		

Figure 4-4

4. Choose to allow the **Allow HttpClient Requests** option (*Figure 4-5*).

SD Billing	Engine						
Group	5						
				1	c. 1 5		
App ID	7dae18d6-0bef-433d-a78	3d-5b9	Publi	sher · · · · · · · · · · · · ·	Simply Dynar	nics Ltd	

Figure 4-5





4.2 Choosing the SD Billing Engine Role

1. From your Dynamics 365 Business Central Web Client, in the app bar, select the **Settings** icon and then select **My Settings** (*Figure 4-6*).

						0 D 💿	? 🕕
Inventory ∨ Posted Documents ∨ Setup & Exter	isions ∨ =					Personalise	
Sales Journals Cash Receipt Journals Transfer Ord	ders					Design	
						My Settings	
	ACTIONS					Company information	Î
		+ Sales Order + Sales Return Order	+ Sales Credit Memo	> Sales > Reports	> His	Assisted setup	
		T Sales Return Order	2 Tasks	> Reports		Advanced settings	
254							

Figure 4-6

2. In the My Settings page, on the Role field, select the AssistEdit icon (Figure 4-7).

ole · · · · · · · · · · · · · · · · · · ·	Sales Order Processor	
ompany	CRONUS International Ltd.	•••
Vork Date	22/12/2021	
legion	English (United Kingdom)	
anguage	English (United Kingdom)	
Time Zone	(UTC+00:00) Dublin, Edinburgh, Lisbon, L	
Notifications	Change when I receive notifications.	
Feaching Tips		
Security /our last sign in was on 22/12/21 11:0	2.	
	OK Can	el

Figure 4-7

3. You should see **SD Billing Engine** in the list of Roles (*Figure 4-8*).





Display Name	
SD Trade Counter	
SD Long Term Agreements	
SD Data and GDPR Manager	
SD Case Manager Manager	
SD Case Manager User	
SD Billing Engine	
SD Bulk Mailer	
SD Intelli Pricing	
Company Hub	
SD Interface Banking	
SD Linkbox	
SD Document Pack	
SD Stores Logistics	
SD Stores Logistics Mobile	
Accountant	
Business Manager	
	OK Cancel

Figure 4-8

- 4. Choose **SD Billing Engine** and click **OK**.
- 5. The **SD Billing Engine** role should now be displayed in the **Role** field (*Figure 4-9*).

Role	SD Billing Engine	
Company	CRONUS International Ltd.	
Work Date	22/12/2021	i
Region	English (United Kingdom)	
Language · · · · · · · · · · · · · · · · · · ·	English (United Kingdom)	
Time Zone	(UTC+00:00) Dublin, Edinburgh, Lisbon, L	
Notifications	Change when I receive notifications.	
Teaching Tips		
Security		
Your last sign in was on 22/12/21 11:0	2.	
	OK Cancel	







4.3 Accessing the SD Billing Engine Pages

Use the **Tell Me** to search for SD Billing Engine pages. Begin typing **SD** or **Billing** to see a list of the SD Billing Engine pages (*Figure 4-10*).

sd billing		
Go to Pages and Tasks		Show less (3)
> SD Billing Engine	Tasks	
> SD Billing Engine Setup	Tasks	
> SD Billing Engine Contract List	Lists	
> SD Billing Engine Activity List	Lists	Д
> SD Billing Engine Manual Template List	Lists	
> SD Billing Engine Manual Activity List	Lists	
> SD Billing Engine Billing Element Codes	Lists	
> SD Billing Engine Suggested Billing Lines	Lists	
> SD Billing Engine Activities - Sales Orders	Tasks	
> SD Billing Engine Activities - Active Billing	Tasks	
> SD Billing Engine Activities - Historical Billing	Tasks	

Figure 4-10





4.4 Activating the SD Billing Engine Licence

To use SD Billing Engine, you must activate the licence.

- 1. From the Tell Me, search for and select the **SD Billing Engine Setup** page.
- 2. You will be prompted that "Your SD Billing Engine license needs to be validated." Choose **Yes** (*Figure 4-11*).



Figure 4-11

3. You will then see the **Activate your product** page.

4.4.1 Activating the SD Billing Engine Licence with a Product Key

In the Activate your product page:

- 1. Enter your company name in Company Name.
- 2. Enter your company email in Email.
- 3. Paste the supplied product key into the **Product Key** field. **Tab off the Product Key field to validate the contents of the field and to enable the Activate key**. Choose **Activate** (*Figure 4-12*).





				_
Shop				
				_
Company Name 🔗				
Email · · · · · · · · · ·				
Product Key				
Valid · · · · · · · · ·		\supset		
License Type				- 1
Expiry Date				0
				6 C 1
	Free Trial	Request Subs	cription	Activate



4. The **Activate your product** page will update to display a message that the activation was successful. The expiry date will depend on the date that you activated your free trial.

4.4.2 Activating the SD Billing Engine Licence with a Free Trial

If you have not received a Product Key from Simply Dynamics Ltd. and want to avail of a free trial in the **Activate your product** page:

- 1. Enter your company name in **Company Name.**
- 2. Enter your company email value in Email.
- 3. Choose Free Trial (Figure 4-13).





Activate your	product		$\scriptstyle \checkmark \times$
Dynamics Shop			
Company Name	*		
Email · · · · · · · · ·	*		
Product Key			
Valid · · · · · · · · ·	••••••	\supset	
License Type			
Expiry Date			
		expired and the product ca ics for a new Product Key	

Figure 4-13

4. You are then prompted to choose **Yes** to activate your free trial (*Figure 4-14*). Choose **Yes**.

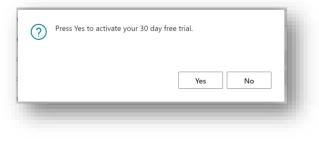


Figure 4-14

5. The **Activate your product** page will update to display a message that the activation was successful. The expiry date will depend on the date that you activated your free trial (*Figure 4-15*).





Activate your produ	ict		2	×
Shop				- 11
Company Name				- 11
Email · · · · · · · · · · · · · · · · · · ·				- 11
Product Key				- 11
Valid				- 11
License Type	trial			
Expiry Date	21/01/	2022		<u> </u>
Activation successful! Than Your license expires on 1/2		g SD Billing Engin	e!	- 1
F	ree Trial	Request Subscript	ion Activ	ate
				_

Figure 4-15

- 6. Choose **Finish** to exit the page.
- 7. When your Free Trial has expired, choose **Request Subscription** to request a Product Key from Simply Dynamics.





5 Uninstalling SD Billing Engine

You can uninstall SD Billing Engine using the Web Client:

1. Open your Dynamics 365 Business Central Web Client and use the **Tell Me** to search for **Extension Management** (*Figure 5-1*).

t TELL ME WHAT YOU WANT TO DO		2	\times				Q	Q	Ø	?	
extension			×				2				
Go to Pages and Tasks											
> Extension Management	Administration		П	+ Sales Credit Memo > Tasks	SalesReports	> History					
Didn't find what you were looking for? Try exploring					y nepore						
4											
		-	-		-		-	-	-		

Figure 5-1

- 2. In Extension Management, you should see the SD Billing Engine App installed.
- 3. Select the **SD Billing Engine** App and choose the **Uninstall** Action (*Figure 5-2*).

🔎 Search De	tails <u>Man</u>	age 🚺 Oper	in Excel Actions	Fewer options		Y	≡
📲 Install 🌔	Uninstall	📌 Configure] Download Source	1 Learn More	🔀 Refresh		移
Description			Name 1		Version		

Figure 5-2





6 Setup and Configuration

6.1 SD Billing Engine Assisted Setup Wizard

You can easily setup SD Billing Engine using the **Assisted Setup** Action on the **SD Billing Engine Setup** page.

1. From the action bar choose the **Process** group, and then **Assisted Setup** (*Figure 6-1*).

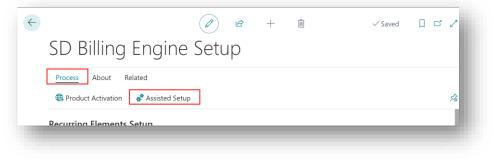


Figure 6-1

2. The **Assisted Setup Wizard** is displayed and guides you through set up. Choose **Next** (*Figure 6-2*).

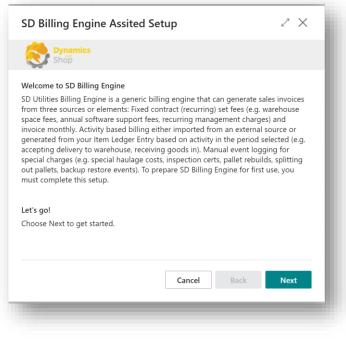


Figure 6-2





 Choose the No. Series that will be used to generate Sales Invoices in SD Billing Engine. The Create Invoices Handler defaults to the Codeunit. If you want to import sample Billing Codes, select Load Default Settings. Choose Next (Figure 6-3).

Dynamics	
Shop	
General Settings	
Load Default Settings	
Invoice No. Series · · · · · · · BE-INV	\sim
Order No. Series	\sim
Create Invoices Handler 430	06444 ~
Create Orders Handler	0 ~



 Choose the No. Series that will be used when creating the Contracts in SD Billing Engine. The Suggest Recurring Handler defaults to the Codeunit. Choose to Enable Recurring Contracts if you want to create Invoices based on Contracts. Choose Next (Figure 6-4).

Instructions on Recurring Billing. Recurring Billing Contract No. Series ······ BE-CONTR ··· Suggest Recurring Handler ····· 43006441 ··	SD Billing Engine		2 ×
Recurring Billing Contract No. Series BE-CONTR	Shop		
Contract No. Series · · · · · · · BE-CONTR · · · · · · · · · · · · · · · · · · ·	nstructions on Recurring Billing.		
Suggest Recurring Handler · · · · · · 43006441 V	Recurring Billing		
	Contract No. Series	BE-CONTR	\sim
Enable Recurring Billing · · · · · · · ·	uggest Recurring Handler		43006441 $ \smallsetminus $
	nable Recurring Billing		
		Cancel Back	Next
Cancel Back Next			







5. Choose the Customer Dimension to from your existing global dimensions. This field allows SD Billing Engine to determine which customer should be billed for the item ledger entry transaction. The values of the dimension chosen for this customer dimension field must be populated with Customer No. The Suggest Activity Handler and the Get Entries Handler defaults to the Codeunit. Choose to Enable Activity Billing if you want to create Invoices based on activities. Choose Next (Figure 6-5).

Dynamics Instructions on Activity Billing. Activity Billing Suggest Activity Handler Get Entries Handler 43006445
Activity Billing Suggest Activity Handler 43006442
Suggest Activity Handler · · · · · · · · 43006442
Get Entries Handler 43006445
Customer Dimension
Enable Activity Billing

Figure 6-5

6. The **Suggest Manual Handler** defaults to the Codeunit. Choose to **Enable Manual Billing** if you want to create Invoices based on Manual entries. Choose **Next** (*Figure 6-6*).

SD Billing Engine	\mathcal{Z} $ imes$
Shop	
Instructions on Manual Billing.	
Manual Billing	
Suggest Manual Handler	43006443 ∨
Enable Manual Billing	
	Cancel Back Next







7. Choose Finish (Figure 6-7).

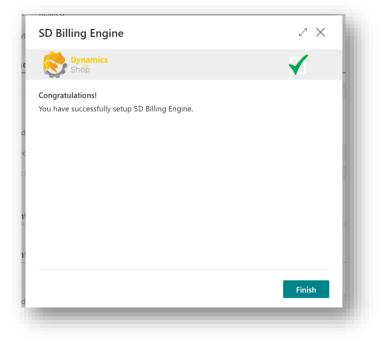


Figure 6-7





7 Understanding SD Billing Engine Concepts

SD Billing Engine is a generic billing engine that can generate sales invoices from three sources or elements:

- Recurring contract setups with fixed recurring charges linked to a customer.
- Activity based entries either generated in Microsoft Dynamics 365 Business Central linked to the item ledger entry, or, imported into Microsoft Dynamics 365 Business Central.
- Manual entries which are items and events logged by users.

Using SD Billing Engine, you can bill:

- Fixed contract (recurring) set fees and invoice monthly. For example, warehouse space fees, annual software support fees, recurring management charges.
- Activity based billing either imported from an external source, or, generated from your item ledger entry based on activity in the period selected. For example, accepting delivery to a warehouse, receiving goods in.
- Manual event logging for special charges. For example, special haulage costs, inspection certs, pallet rebuilds, splitting out pallets, backup restore events.

Note: The activities that you are billing in the item ledger entry are billed on behalf of a third-party customer. You are billing the third-party customer, not the customer or vendor on the item ledger entry source line.

The item defines who you are billing, not the vendor or the customer. The item is unique to the customer. Each item for which the transaction is billable should be stamped with a customer dimension (Customer No.). Any item that you do not want to bill, can be left unstamped. Items of type service are ignored for activity-based billing.





8 Using SD Billing Engine

8.1 Setup Card

In the **SD Billing Engine Setup** page, expand the **Recurring Elements Setup** FastTab (*Figure 8-1*):

	in a Cativia		
Billing Eng	ine Setup		
Home About Related	More options		
Revealed a contraction	🗚 Assisted Setup 🛛 🗸 Manage Su	ubscriptions	×
Enabled	BE-CT V	Version Contracts	
Enabled		Version Contracts	
Suggest Billing Handler	43006441 ~	Contracts	11
Suggest blinnig handler		Billing Codes	3
Billing Period on Invoi			
Billing Period on Invoi ·		Closed Contract Reas 🔹 🔘	



• Enabled – Select this checkbox to use the recurring elements billing functionality in SD Billing Engine.

The recurring based billing functionality is used to bill fixed contract (recurring) set fees linked to a customer and invoiced monthly. For example, warehouse space fees, annual software support fees, recurring management charges.

- **Contract No. Series** Enter the number series to use when creating the recurring contracts.
- Suggest Billing Handler Enter the ID of the Codeunit that contains the logic to use when suggesting and calculating recurring billing.
- **Billing Period on Invoice** Select this option to stamp the billing period on the invoices created for the recurring contracts.
- Force Zero Contract Price Select this option so that when a zero price is entered on the contract line, SD Billing Engine will use the zero price on the contract line when suggesting billing lines rather than using the standard find best price functionality for the item on the contract line.





- **Posting Description** Enter a description to default into the Posting Description when a Recurring Contract is created. You can use place holder fields to build the description by choosing the ellipses on the field.
- Version Contracts Select this option to track contract changes through different versions of the contract. The contract version is archived when moving from New to Live.
- Enforce Job Code Choose this option to prompt users that a job code must be entered on creation of the contract line. When the Generate Invoices are run for the recurring elements, SD Billing Engine again prompts the user if a job code does not exist on the contract line. The invoices are created irrespective of whether the job code is entered or not.
- **Contracts** Displays a flowfield count of the recurring contracts that are setup in SD Billing Engine.
- **Billing Codes** Displays a flowfield count of the billing codes, of Billing Type Recurring, which have been setup in SD Billing Engine.
- **Closed Contract Reason Code** Select this option if you want users to enter a reason code when closing a contract.

The Activity Elements Setup FastTab contains the following fields when an Activity Setup Type of Advanced is selected (*Figure 8-2*):

Enabled · · · · · · · · · · · · ·	D	Dimension Handling · · · · Cust	omer-Item Dimension \sim
Suggest Billing Handler	43006442 🗸	Disable Item Notificat)
Entry Handler Type	odeunit 🗸	Event Based Custome)
Get Entries Handler	43006445 🗸	Split Invoice)
Setup Type · · · · · · Ac	lvanced	Enforce Job Code)
Customer Dimension · · · · CU	stomer v	Billing Codes	2



• **Enabled** – Select this checkbox to use the activity elements billing functionality in SD Billing Engine.

The activity-based billing functionality is used to bill entries imported from an external source or generated from your Item Ledger Entry based on activity in the period selected (e.g., accepting delivery to warehouse, receiving goods in).





- **Suggest Billing Handler** Enter the ID of the Codeunit that contains the logic to use when calculating activity-based billing.
- Entry Handler Type Select the handler type to use to get the activity entries that will be billed. Options are Codeunit or XMLport.
- **Get Entries Handler** Enter the ID for the Codeunit or XMLport that contains the logic used to get the activity entries for the activity elements billing.
- Setup Type Choose the setup type to use to define the activity element setup. Options are Simplified or Advanced. To define the billing code mapping click the Assist Edit to the right of this field.

Simplified – This option allows the user to define a single billing code for an item ledger entry type.

Advanced – This option allows multiple billing codes to be used against multiple item ledger entry types.

 Customer Dimension – Choose the dimension to use as the customer dimension from your existing global dimensions. This customer dimension field allows SD Billing Engine to determine which customer should be billed for the item ledger entry transaction. The values of the dimension chosen for this customer dimension field must be populated with customer numbers.

Note: The activities that you are billing in the Item Ledger Entry are billed on behalf of a third-party customer. You are billing the third-party customer, not the actual customer or vendor on the item ledger entry source line. The item, not the vendor or the customer, defines who you are billing. The item is unique to the customer. Each item for which the transaction is billable should be stamped with a customer dimension (with a value of a customer no. from the customer card). Any item that you do not want to bill, can be left unstamped. Items of type service are ignored for activity-based billing.

• Dimension Handling – Choose the value for the dimension handling. Options are Customer-Item Dimension or Dimension Set ID.

Customer-Item Dimension – With this option SD Billing Engine matches item ledger entry lines with the customers to bill by searching for the customer dimension value





in the Item's dimensions. This option limits an item to be assigned to a single customer. With this option you map one item to a specific customer.

Dimension Set ID – With this option SD Billing Engine searches for the customer to bill by matching the Item Ledger Entry Dimension Set ID value with the value entered in **Customer Dimension**. With this option, you need to specify the Dimension Set ID on the document header when posting for SD Billing Engine to interrogate the Item Ledger Entry.

- Disable Item Notifications When running the Get Entries action from the Activity Lines page, the system will notify the user when a billable item ledger entry record is detected without a customer dimension assigned to the item (i.e., when an item ledger entry cannot be matched with a customer). Select this option to hide these notifications.
- Event Based Customer Dimension Update Select this checkbox to add the customer to the customer dimension field whenever a new customer is created or renamed.

Note: To manually link the item with the customer no., you then stamp the item with the correct customer dimension.

- **Split Invoice** Select this checkbox to generate a separate invoice for the customer when billing for activity based and manual based elements.
- Enforce Job Code Choose this option to prompt users that a job code must be entered on creation of the activity line.

When the Generate Invoices are run for the activity lines, SD Billing Engine again prompts the user if a job code does not exist on the activity line. The invoices are created irrespective of whether the job code is entered or not.

• **Billing Codes** – Displays a flowfield count of the Billing Element Codes setup in the in SD Billing Engine that are of Billing Type Activity.





When an **Activity Setup Type** of **Advanced** is selected, the **Activity Elements Setup** FastTab is displayed and contains the following additional fields. Use the **Assist Edit** on the **Setup Type** to setup your billing code mappings (*Figure 8-3*):

R	Search + New	B∰ E	dit List	<u> Î</u> Delete	鶨 Copy Configuration	💵 Open in Excel				
	Code		Customer †	Enabl	Customer Name	Billing Code	Billing Description	Туре	Sub-Type	Locati
\rightarrow	DEF SHIP	÷	10000		The Cannon Group PLC	SALES PICK	Sales Pick	Item Ledger	Shipment	
	INV CHARGE		10000		The Cannon Group PLC	SALES SHIP	Sales Shipment	Item Ledger	Shipment	
	LABEL		10000		The Cannon Group PLC	SALES PICK	Sales Pick	Item Ledger	Pick	
	PALLET COUNT		10000		The Cannon Group PLC	SALES SHIP	Sales Shipment	Item Ledger	Putaway	
	DEF SHIP		20000		Selangorian Ltd.	SALES PICK	Sales Pick	Item Ledger	Shipment	
	INV CHARGE		20000		Selangorian Ltd.	SALES SHIP	Sales Shipment	Item Ledger	Shipment	
	LABEL		20000		Selangorian Ltd.	SALES PICK	Sales Pick	Item Ledger	Pick	
	PALLET COUNT		20000		Selangorian Ltd.	SALES SHIP	Sales Shipment	Item Ledger	Putaway	

Figure 8-3

The Activity Elements Setup FastTab contains the following additional fields when an Activity Setup Type of Simplified is selected. Use the Assist Edit on the Setup Type to setup these billing code mappings (*Figure 8-4*):

Edit - Billing Code Mappir	ig	~ ×
Purchase Receipt		~
Purch. Putaway		\sim
Sales Shipment	SALES PICK	\sim
Sales Pick	SALES SHIP	\sim
Transfer Shipment		~
Transfer Receipt		~
Assembly		~
Bin Count		\sim
		OK Cancel

Figure 8-4

For each of these fields above you must specify a Billing Code that relates to the corresponding Item Ledger Entry Type. If left empty, the Item Ledger Entry Type will be ignored when generating Activity Lines.





• **Purchase Receipt** – Enter a Billing Code to relate to the corresponding Item Ledger Entry Type (*Figure 8-5*). This field denotes an Entry Type of Purchase and is registered once per document.

Entry No.	Item No.	Posting Date		Source No.	Document De No.	escription	Location Code	Quantity	Remaining Quantity
1.	29 1964-S	04/01/2021	Purchase	20000	107017		GREEN	14	14
1	31 1964-W	06/01/2021	Purchase	10000	107018		GREEN	15	15
1	32 1964-W	06/01/2021	Purchase	10000	107018		BLUE	25	21
1	47 70060	09/01/2021	Purchase	10000	107019		RED	250	249
1	48 70060	09/01/2021	Purchase	10000	107019		BLUE	500	500
1	49 70011	09/01/2021	Purchase	10000	107019		BLUE	52	52



• **Purch. Putaway** – Enter a Billing Code to relate to the corresponding Item Ledger Entry Type (*Figure 8-6*). This field denotes an Entry Type of Purchase and is registered once per document line.

Entry No.	Item No.	Posting Date	Entry Type	Source No.	Document No.	Description	Location Code	Quantity	Remaining Quantity
129	9 1964-S	04/01/2021	Purchase 🕔	20000	107017		GREEN	14	14
131	1964-W	06/01/2021	Purchase	10000	107018		GREEN	15	15
132	1964-W	06/01/2021	Purchase	10000	107018		BLUE	25	21
147	70060	09/01/2021	Purchase	10000	107019		RED	250	249
148	3 70060	09/01/2021	Purchase	10000	107019		BLUE	500	500
149	70011	09/01/2021	Purchase	10000	107019		BLUE	52	52



• Sales Shipment – Enter a Billing Code to relate to the corresponding Item Ledger Entry Type (*Figure 8-7*). This field denotes an Entry Type of Sale and is registered once per document.

Remaining Quantity	Quantity	Location Code	Description	Document No.	Source No.	Entry Type	Posting Date	Item No.	Entry No.
-1	-1	GREEN		102019	43687129	Sale	15/01/2021	1996-S	170
0	-1	RED		102020	49633663	Sale	16/01/2021	1896-S	171
0	-1	RED		102020	49633663	Sale	16/01/2021	1906-S	172
0	-1	RED		102021	32656565	Sale	17/01/2021	1968-S	174
0	-2	RED		102021	32656565	Sale	17/01/2021	1960-S	175
-2	-2	RED		102021	32656565	Sale	17/01/2021	1976-W	176
-5	-5	GREEN		102022	20000	Sale	17/01/2021	1928-5	177

Figure 8-7





• Sales Pick – Enter a Billing Code to relate to the corresponding Item Ledger Entry Type (*Figure 8-8*). This field denotes an Entry Type of Sale and is registered once per document line.

Entry No.	Item No.	Posting Date	Entry Type	Source No.	Document No.	Description	Location Code	Quantity	Remaining Quantity
170	1996-S	15/01/2021	Sale	43687129	102019		GREEN	-1	-1
171	1896-S	16/01/2021	Sale	49633663	102020		RED	-1	C
172	1906-S	16/01/2021	Sale	49633663	102020		RED	-1	C
174	1968-S	17/01/2021	Sale	32656565	102021		RED	-1	C
175	1960-S	17/01/2021	Sale	32656565	102021		RED	-2	(
176	1976-W	17/01/2021	Sale	32656565	102021		RED	-2	-2
177	1928-5	17/01/2021	Sale	20000	102022		GREEN	-5	-5



• **Transfer Shipment** – Enter a Billing Code to relate to the corresponding Item Ledger Entry Type (*Figure 8-9*). This field denotes an Entry Type of Transfer (Shipment negative entries) and is registered once per document.

Entry No. I	Item No.	Posting Date	Entry Type	Source No.	Document No.	Description	Location Code	Quantity	Remaining Quantity
247 1	908-5	28/01/2021	Transfer		109001		OWN LOG.	-10	0
248 1	908-S	28/01/2021	Transfer		109001		RED	10	10
249 1	936-S	28/01/2021	Transfer		109001		OWN LOG.	-4	0
250 1	936-S	28/01/2021	Transfer		109001		RED	4	4
256 7	0001	01/01/2020	Transfer		109002		OUT. LOG.	-15	0
257 7	0001	01/01/2020	Transfer		109002		YELLOW	15	15
258 7	0002	01/01/2020	Transfer		109002		OUT. LOG.	-3	0
259 7	0002	01/01/2020	Transfer		109002		YELLOW	3	3
260 7	/0003	01/01/2020	Transfer		109002		OUT. LOG.	-31	0
261 7	0003	01/01/2020	Transfer		109002		YELLOW	31	31
262 1	906-S	28/01/2021	Transfer		108003		GREEN	-40	0



• **Transfer Receipt** – Enter a Billing Code to relate to the corresponding Item Ledger Entry Type (*Figure 8-10*). This field denotes an Entry Type of Transfer (Receipt positive entries) and is registered once per document.

ntry No. Item No.	Posting Date	Entry Type	Source No.	Document No.	Description	Location Code	Quantity	Remaining Quantity
247 1908-5	28/01/2021	Transfer		109001		OWN LOG.	-10	0
248 1908-S	28/01/2021	Transfer		109001		RED	10	10
249 1936-S	28/01/2021	Transfer		109001		OWN LOG.	-4	0
250 1936-S	28/01/2021	Transfer		109001		RED	4	4
256 70001	01/01/2020	Transfer		109002		OUT. LOG.	-15	C
257 70001	01/01/2020	Transfer		109002		YELLOW	15	15
258 70002	01/01/2020	Transfer		109002		OUT. LOG.	-3	C
259 70002	01/01/2020	Transfer		109002		YELLOW	3	3
260 70003	01/01/2020	Transfer		109002		OUT. LOG.	-31	C
261 70003	01/01/2020	Transfer		109002		YELLOW	31	31
262 1906-S	28/01/2021	Transfer		108003		GREEN	-40	(

Figure 8-10





• **Assembly** – Enter a Billing Code to relate to the corresponding Item Ledger Entry Type.

This field denotes an Entry Type of Assembly Output and is registered once per document, per line.

• **Bin Count**– Enter a Billing Code to relate to the corresponding Item Ledger Entry Type.

Counts the greatest number of bins used in a day over a given period, the period is defined on the Get Entries Request page (Start Date and End Date). The result is split by customer.

Note: Purchase Returns and Sales Return Shipments are not handled by enquiring on the Item Ledger Entry but can be logged as a Manual task.

The Manual Elements Setup FastTab contains the following fields (Figure 8-11):

Enabled · · · · · · · · · · · · · · · · · ·		Enforce Job Code	
Suggest Billing Handler	43006443 🗸	Billing Codes	
Split Invoice			



• Enabled – Select this checkbox to use the manual elements billing functionality in SD Billing Engine.

The manual-based billing functionality is used to bill entries for manually logged items and events, logged by users for charges (e.g., special haulage costs, inspection certs, pallet rebuilds, splitting out pallets, backup restore events).

- **Suggest Billing Handler** Enter the ID of the Codeunit that contains the logic to use when creating and calculating manual-based billing.
- **Split Invoice** Select this checkbox to generate a separate invoice for the customer when billing for activity based and manual based elements.
- Enforce Job Code Choose this option to prompt users that a job code must be entered on creation of the manual line if a job code does not exist on the line.





When the Generate Invoices are run for the manual elements, SD Billing Engine again prompts the user if a job code does not exist on the manual line. The invoices are created irrespective of whether the job code is entered or not.

• **Billing Codes** – Displays a flowfield count of the Billing Element Codes, of Billing Type Manual, which are setup in in SD Utilities Billing Engine.

The Sales Document Generation FastTab contains the following fields (Figure 8-12)

Invoice No. Series	BE-INV	\sim	Create Orders Handler		0 ~
Create Invoices Handler		43006444 🗸	Sales Doc. Dimension	BILLING ENGINE	\sim
Order No. Series	,	~	Dimension Value	BE INV	\sim

Figure 8-12

- Invoice No. Series Enter the number series to use for invoices generated from SD Billing Engine.
- **Create Invoices Handler** Enter the ID of the Codeunit that contains the logic to use when SD Billing Engine creates the invoices for recurring, manual and/or activity-based billing.
- Order No. Series Enter the number series to use for sales orders generated by SD Billing Engine.
- **Create Orders Handler** Enter the ID of the Codeunit that contains the logic to use to create orders that have been inserted into order staging tables from an outside/external source.
- Sales Doc. Dimension Choose a specific dimension that will be stamped on every sales document header generated by SD Billing Engine.
- **Dimension Value** Choose a specific dimension value that will be stamped to every sales document header generated by SD Billing Engine.





The **SD Billing Engine Setup** contains the following actions on the action bar in the **Related** group (*Figure 8-13*):

		Ø	Ŕ	+		
Billing Er	ngine Se	etup				
Home About Re	elated More	options				-
📅 Billing Codes	🖡 External UoMs	ᇽ Activity A	dvanced S	etup	🗲 Run Upgrade	



- Billing Codes Choose this action to set up billing codes in SD Billing Engine.
- External UoMs Choose this action to define the External Units of Measure to map to the Units of Measure in your database. These External Units of Measure are needed when importing activity-based entries from an external source.
- Activity Advanced Setup Chose this action to define the advanced activity setup if you have specified an Activity Setup Type of Advanced in the Activity Elements Setup FastTab.
- Run Contract Tracker Upgrade On upgrading to version 5.0.0 of SD Billing Engine, detailed Contract Tracking entries are created from existing details in the Contract Versions. An action to build the Contract Tracker Detail table is surfaced on the SD Billing Engine Setup card. This action calls upgrade code which creates a new version of all existing Contracts; builds the Contract Tracker Detail table; updates Creation records in Contract Header to increase; updates Removal records in Contract Header to decrease; and sets an Upgrade Boolean field on the Billing Engine Setup table to false.





8.2 Billing Codes

The **SD Billing Engine Billing Element Codes** list, accessed from the **SD Billing Engine Setup Card** (*Figure 8-14*), or, by searching the Tell Me, allows you to define billable tasks. Each billing code is defined for a particular individual billing task and type.

Śaved	
	S
	ſ

Figure 8-14

For **Billing Type Manual** and **Activity**, you define the billable tasks and link the billable tasks with an **Item No.** You can filter down to link the billable tasks to items of **Type Service** by defining an Item Category on the Billing Code lines. For **Billing Type Recurring**, billable items are defined on the contract lines.

SD Billing Engine Billing	Element Codes						✓ Saved 🔲 🗖	, v.
	🐺 Edit List 📋 Delete 🛛	Payment 🛛 🚺 Open in Excel					7 🗉	0
Home \sim								疡
Billing Type †	Billing Code	Billing Description	✓ Item Code	Item Description	Billing Period	Invoice Date Formula	Default Payment Terms	De Pay Me
Recurring	BACKUP SERVICES	Backup Services			1M	2D	CM	BAI
Recurring	DB HEALTH CHECK	Database Helath Check			1M	CM+1M	30 DAYS	CA
Recurring	SOFTWARE SERVICES 1Y	Software Services - Yearly			12M	CM+1M	30 DAYS	
Recurring	SOFTWARE SERVICES 1M	Software Servies - Monthly			1M	CM+1M	CM	
Recurring	SOFTWARE SERVICES 1Q	Software Services - Quarterly			ЗM	CM+1M	CM	
Recurring	MANAGEMENT CHARGES	Management Charges - Monthly			1M	CM+1M	30 DAYS	
Recurring	WAREHOUSE SPACE 1M	Warehouse Space Fees - Monthly			1M	CM+1M	CM	
Recurring	SOFTWARE REVIEW	Software Review - Monthly			1M	CM+1M	30 DAYS	CA
Activity	SALES PICK	Sales Pick	70069	Sales Pick				
Activity	SALES SHIP	Sales Shipment	70070	Sales Ship				
Manual	BREAK PALLET	Break Pallet	70071	Break Pallet				
Manual	LABELS	Affixing Labels	70068	Labels				
Manual	PALLET REBUILD	Pallet Rebuild	70076	Pallet Rebuild				
Manual	RESTORE BACKUP	Restore Backup	70065	Backup Service				
Manual	SPLIT PALLET	Splitting Out Pallets	70077	Splitting out Pallets				
\rightarrow Manual	WAREHOUSE JOBS	Warehouse Jobs	70072	Manual Warehouse Jobs				
Manual	MAINTENANCE JOBS	Maintenance Job	70078	Maintenance Jobs				

The **SD Billing Engine Element Codes** list contains the following fields (*Figure 8-15*):

Figure 8-15

• **Billing Type** - Select the billing type for the billing code. Options are **Recurring**, **Activity** or **Manual**.





- **Billing Code** Enter a unique code for the billing element code.
- Billing Code Description Enter a user defined description for the billing code.
- Item Category Enter the item category that you want to limit the items to when entering items on the contract or adding items to billing codes of Billing Type Activity and Manual.
- Job Post. Grp Filter Choose the job posting group that you want to filter down the job codes to on the contract, activity, and manual lines.
- Item Code For a Billing Type of Activity or Manual, select the item code to link to the billing code.
- Item Description Displays the description of the item selected in Item Code.
- **Billing Period** For a Billing Type of Recurring, enter how often you want to bill e.g., 1M, 1Q etc.
- Invoice Date Formula For a Billing Type of Recurring, enter the date formula to use to calculate the next invoice billing period for the contract.

E.g., If **Billing Period** is 1M, and **Invoice Date Formula** is CM+1M, and the **Next Invoice Date** is today, then the next invoice billing period will be the first of next month up until the end of next month. This allows you issue an invoice for the service before the next billing period starts (i.e., you are billing ahead of providing the service).

Once the **Suggested Billing** has been run and the invoice generated, the system will update the **Next Invoice Date**, **Last Invoice Date** and **Billing Period** on the contract.

- **Default Payment Terms** Enter the default payment terms to use as the default when creating the invoice for the billing code.
- **Default Payment Method** Enter the default payment method to use as the default when creating the invoice for the billing code.
- **Default Payment Service** Enter the default payment service to use, as per standard Microsoft Dynamics 365 Business Central.
- **Default Deferral Template Code** – Enter the default deferral template code to use, as per standard Microsoft Dynamics 365 Business Central.





8.3 External Units of Measure

The **SD Billing Engine External Units of Measure** list, accessed from the **SD Billing Engine Setup Card** (*Figure 8-16*), or by searching the Tell Me, allows you to define the External Units of Measure to map to the units of measure in your Microsoft Dynamics 365 Business Central database. These external units of measure are required when importing activity-based entries from an external source.

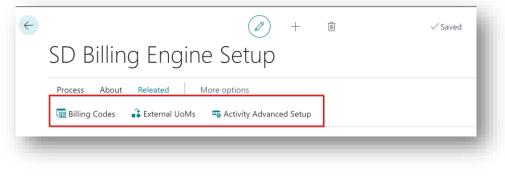


Figure 8-16

Note: You need to map the External Unit of Measure against the Item Unit of Measure even if they are identical codes.

The SD-UB External Units of Measure list contains the following fields (Figure 8-17):

🔎 Search	+ New 💀 Edit Lis	t <u> </u> Delete	X 0	pen in Excel			Y	≡	
	External Unit of Measure ↑				Item Unit of Measure †				
	PALLETS				PALLET				
	PCS			PCS					
\rightarrow	PIECES			PCS					

Figure 8-17

- External Unit of Measure Enter a code to define the external unit of measure code.
- Item Unit of Measure Enter the item unit of measure in your Microsoft Dynamics 365 Business Central database to map the external unit of measure to. Choose from a list of existing Units of Measure in your database.





8.4 Activity Advanced Setup

The **SD Billing Engine Activity Advanced Setup** page, accessed from the **SD Billing Engine Setup Card** (*Figure 8-18*), or by searching the Tell Me, allows you to define as many Billing Codes as you want per Item Ledger Entry Type.

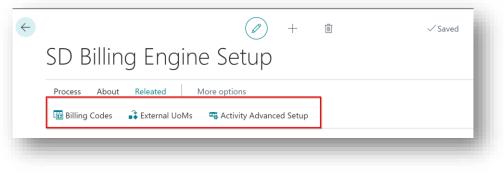


Figure 8-18

The **SD Billing Engine Activity Advanced Setup** page contains the following fields (*Figure 8-19*):

۶	O Search + New	8	Edit List	📋 Delete 🛛 🖧 Copy Configuration 🛛 🗱 Open in Excel								∑ ≣
	Code		Customer †	Ena	Customer Name	Billing Code	Billing Description	Туре	Sub-Type	Location Filter	Zone Filter	Unit of Measure Filte
\rightarrow	DEF SHIP	÷	10000		The Cannon Group PLC	SALES PICK	Sales Pick	Item Ledger	Shipment			
	INV CHARGE		10000		The Cannon Group PLC	SALES SHIP	Sales Shipment	Item Ledger	Shipment			
	LABEL		10000		The Cannon Group PLC	SALES PICK	Sales Pick	Item Ledger	Pick			
	PALLET COUNT		10000		The Cannon Group PLC	SALES SHIP	Sales Shipment	Item Ledger	Putaway			PALLET
	DEF SHIP		20000		Selangorian Ltd.	SALES PICK	Sales Pick	Item Ledger	Shipment			
	INV CHARGE		20000		Selangorian Ltd.	SALES SHIP	Sales Shipment	Item Ledger	Shipment			
	LABEL		20000		Selangorian Ltd.	SALES PICK	Sales Pick	Item Ledger	Pick			
	PALLET COUNT		20000		Selangorian Ltd.	SALES SHIP	Sales Shipment	Item Ledger	Putaway			PALLET

Figure 8-19

- **Code** Enter a unique code to define the code for the Activity Advanced Setup Code.
- **Customer** Select the customer to link to the Activity Advanced Setup Code.
- **Enabled** Select the checkbox to enable the Activity Advanced Setup.
- **Customer Name** Displays the name of the customer chosen in **Customer**.
- **Billing Code** Select the billing code from a list of existing billing codes with a Billing Type of Activity.





- **Billing Description** Displays the description of the billing code entered in **Billing Code.** The Billing Description can be updated here as the same billing codes can be used several different times for different purposes.
- **Type** Select the type from a list. Options are **Item Ledger** or **Warehouse**.
- Sub-Type Select the sub-type from a list. Options are Receipt, Putaway, Shipment, Pick, Transfer Receipt, Transfer Putaway, Transfer Shipment, Transfer Pick, Assembly, or Storage.

Item Ledger Sub-Types:

Receipt - This field denotes an Entry Type of Purchase and is registered once per document.

Putaway - This field denotes an Entry Type of Purchase and is registered once per document line.

Shipment - This field denotes an Entry Type of Sale and is registered once per document.

Pick - This field denotes an Entry Type of Sale and is registered once per document line.

Transfer Receipt - This field denotes an Entry Type of Transfer (Receipt positive entries) and is registered once per document.

Transfer Putaway - This field denotes an Entry Type of Transfer (Receipt positive entries) and is registered once per document, per line.

Transfer Shipment - This field denotes an Entry Type of Transfer (Shipment negative entries) and is registered once per document.

Transfer Pick - This field denotes an Entry Type of Transfer (Shipment negative entries) and is registered once per document, per line.

Assembly - This field denotes an Entry Type of Assembly Output and is registered once per document, per line.





Warehouse Sub-Types:

Storage - Counts the greatest number of bins used in a day over a given period, the period is defined on the Get Entries Request page (Start Date and End Date). The result is split by customer.

- Location Filter Select a location filter from a list of locations in your database.
- **Zone Filter** Applicable only for **Type** of **Warehouse** and a **Sub Type** of **Storage**. Select a zone filter from a list of zones in your database.
- Unit of Measure Filter For sub-type of Putaway, Pick, Transfer Putaway, Transfer Shipment, Transfer Pick, Assembly, or Storage, select a unit of measure filter from a list of units of measure in your database.

The **SD Billing Engine Activity Advanced Setup** page contains the following action on the **Home** tab of the ribbon (*Figure 8-20*):

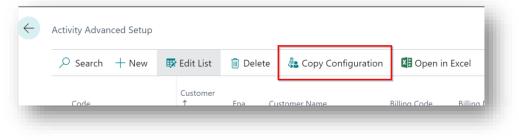


Figure 8-20

• **Copy Configuration** – Choose this Action to copy the definitions in the Advanced Setup for one customer to another customer. A new record is created in the Activity Advanced Setup for the specified customer.





8.5 Recurring Contracts List

The **SD Billing Engine Contract List**, accessed by searching the Tell Me, or by drilling through on the **Live Contracts** cue in the **SD Billing Engine Role Centre** (*Figure 8-21*), allows you to define fixed contract (recurring) set fees and charges and link to a customer (e.g., warehouse space fees, annual software support fees, recurring management charges).

Actions Billing Setup 	> Billing Code	5				
SD Billing Eng	gine Activitites -	Active Billing				
					Actions	
New Contracts	Live Contracts	Activity Lines	Manual Lines	Suggested Billi Lines	د تې	\bigcirc
4	11	0	\bigcirc	\bigcirc	~~	\bigcirc
·	-	- .		→ →	Setup	Billing Codes
·		- 1	ŕ	ŕ		
SD Billing End	gine Activitites -	Historical Billin	a			



The unit price on the recurring contract line is the price that your third-party customer is billed. When the **Enforce Zero Contract Price** on the **SD Billing Engine Setup** is switched off, if the unit price on the recurring contract line is 0 then, when the suggest billing lines routine is run, SD Billing Engine will find the best price using the sales order find best price routine. If the **Enforce Contract Price** on the **SD Billing Engine Setup** is switched on, then SD Billing Engine will use the zero price on the contract line when the suggest billing lines routine is run.

For each recurring contract, there will be a separate invoice generated.





The SD Billing Engine Contract List contains the following fields (Figure 8-22):

									1.000
	Manage	Process Repor	ts 🛛 🗐 Open in Excel					7 🔳	
🚺 Bulk Update Status	Previou:	s Versions							-12
Contract No. †	Status 🕎	Customer No.	Sell-to Customer Name	No.	Currency Code	Billing Code			1
CONTR-00001 :	Live	10000	The Cannon Group PLC	MM-001		MANAGEME	Recurring Contracts		
CONTR-00004	Live	30000	John Haddock Insurance Co.	SS-1m		SOFTWARE S	Active Contracts	,	15
CONTR-00005	Live	01905893	Candoxy Canada Inc.	bs-009		BACKUP SER	Blocked Contracts		0
CONTR-00006	Live	01905899	Elkhorn Airport	M-airp	USD	MANAGEME	Contracts Due	1	15
CONTR-00007	Live	21233572	Somadis		MAD	MANAGEME			-



- **Contract No.** Displays the customer's recurring contract number.
- Status Displays the contract status. Contract status can be Live, New or Closed. The Bulk Update Status action is available for selected or all contracts.
- Sell-to Customer No. Displays the Sell-to Customer No. on the recurring contract.
- Sell-to Customer Name Displays the name of the customer in Sell-to Customer No.
- External Document No. Displays the external document number for the recurring contract.
- **Currency Code** Displays the currency code for the customer entered in **Sell-to Customer No.** Displays blank if the customer's currency is the base currency.
- **Billing Code** Displays the Billing Code associated with the contract.
- Billing Code Description Displays the description of the billing code entered in Billing Code.
- **Billing Type** Displays a billing type of **Recurring**.
- **Blocked** Displays as selected if the contract is blocked. A blocked contract will not be included in billing calculations.
- **Billing Period** Displays how often you want to bill e.g., 1M, 1Q etc.
- Invoice Date Formula For Billing Type of Recurring, displays the date formula to use to calculate the next invoice billing period for the contract.





E.g., if the Billing Period is 1M, the Invoice Date Formula is CM+1M, and the Next Invoice Date is today, then the next invoice billing period will be the first of next month up until the end of next month. This allows you to issue an invoice for the service before the next billing period starts (i.e., you are billing ahead of providing the service).

Once the Suggested Billing has been run and the invoice generated, the system will update the Next Invoice Date, the Last Invoice Date, and the Billing Period on the contract.

- Starting Date Displays the contract's starting date. The date that the contract is due to start/is valid from. This date will determine if the contract is included in the Suggest Lines action on the Suggested Billing Lines page. When a contract is out of date, the Contract No. on the Active Contracts list is highlighted with yellow styling.
- Ending Date Displays the contract's ending date. The date that the contract is due to end/is valid to. This date will determine if the contract is included in the Suggest Lines action on the Suggested Billing Lines page. When a contract is out of date, the Contract No. on the Active Contracts list is highlighted with yellow styling.
- **Amount** Displays the total contract amount excluding VAT.
- **Default Payment Service** Displays the default payment service to use, as per standard Microsoft Dynamics 365 Business Central.
- **Default Payment Terms** Displays the default payment service for the recurring contract. If empty the system will look to the value on the customer card.
- **Default Payment Method** Displays the default payment method for the recurring contract. If empty the system will look to the value on the customer card.
- Last Invoice Date Displays the date on which the last invoice was generated by the billing engine for the recurring contract.
- Last Invoice Billing Period Displays the billing period on which that the last invoice was generated by the billing engine for the recurring contract.
- **Next Invoice Date** Displays the date on which the next invoice for the recurring contract is due.
- **Next Invoice Billing Period** Displays the billing period for the next invoice due for the recurring contract.





- **Count of Suggested Billing Lines** A flowfield count of the billing lines that have been suggested but have not yet had an invoice created for the billing lines.
- **Count of Unposted Invoices** A flowfield count of the invoices that have been created for the contract using SD Billing Engine.
- **Count of Posted Invoices** A flowfield count of the invoices that have been created and posted for the contract using SD Billing Engine.

To access an existing **Contract** from the **SD Billing Engine Contracts** list, from the action bar, in the **Manage** group, select **View**, or **Edit** (*Figure 8-23*).

Live Contracts | Work Date: 26/01/2023 \leftarrow + New Manage Process 🖽 Open in Excel Reports Sell-to Contract No. 🕇 Status 🝸 Customer No. Billing Code Description Billing Type CONTR-00001 : Live 10000 Management Charges - Monthly Recurring

To create a new **Contract**, from the action bar, select **New** (Figure 8-23).

Figure 8-23





8.6 Recurring Contract Card

The **Recurring Contracts Card** contains the following fields in the **General** FastTab (*Figure 8-24*).

Previous Versions					
General					
Contract No.	CONTR-00012		Posting Description	Contract - CONTR-00012	
Sell-to Customer No. · · · · ·	30000	\sim	Customer Name	John Haddock Insurance Co.	
Billing Code	SOFTWARE SERVICES	\sim	Billing Code Description	Software Services	
External Document No.	JH-SS-001		Billing Type	Recurring	
Currency Code		\sim	Billing Period	1M	
Starting Date	01/01/2021	Ē	Ending Date		
Blocked · · · · · · · · · · · · · · ·			Status	New	~



- Contract No. Displays the number in the Recurring Contract No. Series as specified in the SD Billing Engine Setup.
- **Posting Description** Passed to the Sales Invoices and stamped on the associated Customer Ledger Entries.
- Sell-to Customer No. Select the Sell-to Customer No. for the recurring contract from a list of existing customers. This is the third party that you want to bill.
- Sell-to Customer Name Displays the name of the customer in Sell-to Customer No.
- **Billing Code** Select the billing code for the recurring contract from a list of billing codes with a Billing Type of Recurring.
- Billing Code Description Displays the description of the billing code entered in Billing Code.
- External Document No. Enter an external document number.
- **Billing Type** Displays the billing type of **Recurring**.





- **Currency Code** Displays the currency code for the customer entered in **Sell-to Customer No.** Displays blank if the customer's currency is the base currency.
- **Billing Period** For Billing Type of Recurring, displays how often you want to bill e.g., 1M, 1Q etc.
- Starting Date Enter the date that the contract is due to start/is valid from. This date will determine if the contract is included in the Suggest Lines action on the Suggested Billing Lines page.
- Ending Date Enter the date that the contract is due to end/is valid to. This date will determine if the contract is included in the Suggest Lines action on the Suggested Billing Lines page.
- **Blocked** Select this checkbox to block the contract. Billing lines will not be generated for blocked contracts.
- Status By default, contracts are initially created with a status of New. Changes can
 only be made to New contracts. Once a contract is updated to Live the contract is
 noneditable. Only Live contracts will be included in the Suggest Lines action. Contracts
 can also be set to Closed. When Closed, contracts are moved to the Archived
 Contracts cue.
- Versions Shows the number of contract versions. A contract is archived and versioned when moved from **New** to Live. You can drill down and see previous versions of the Contract from here.

Archived versions of the contract are available from the **Previous Versions** action on the Recurring Contract Card. Archived versions of a contract can be reinstated as the current version, or a new contract can be created from the archived version (*Figure 8-25*).

- s	D Billing Engi	ine Contrac	t Archive Wo	ork Date: 26	5/01/2023	
	,∽ Search	Manage	Process	Reports	🖽 Open in Excel	
	1 Reinstate Version		1 Create New Contract			
(Contract No. †	Ŧ	Version †	Status	Customer No.	Sell-to Customer Name
1	CONTR-0000	<u>6</u> :	1	New	01905899	Elkhorn Airport







The following fields are contained in the **Invoicing** FastTab (*Figure 8-26*):

		\bigcirc	
BE-RE00001			
General >			
Recurring Lines >			
	2D	Last Invoice Billing Peri	28/02/2027/03/20
Invoicing	2D 01/04/2020	Last Invoice Billing Peri · · · · · · · · · · · · · · · · · ·	28/02/2027/03/20 7 DAYS
Invoicing Invoice Date Formula			
Invoicing	01/04/2020	Default Payment Terms	7 DAYS

Figure 8-26

• Invoice Date Formula – Defaults to the Invoice Date Formula entered for the Billing Code in the Billing Code Setup. Displays the date formula to use to calculate the next invoice billing period for the contract.

E.g., if the Billing Period is 1M, the Invoice Date Formula is CM+1M, and the Next Invoice Date is today, then the next invoice billing period will be the first of next month up until the end of next month. This allows you to issue an invoice for the service before the next billing period starts (i.e., you are billing ahead of providing the service).

Once the Suggested Billing has been run and the invoice generated, the system will update the Next Invoice Date, the Last Invoice Date, and the Billing Period on the contract.

- Next Invoice Date Displays the next invoice date. For a new contract, this date must be initially entered manually. When initially entered, the Next Invoice Billing Period is updated. When the invoice has been generated and posted, the system will automatically calculate and update the Next Invoice Date and Next Invoice Billing Period.
- **Next Invoice Billing Period** Displays the period for which the next invoice covers.
- Last Invoice Date Displays the date on which the last invoice was generated by the billing engine for the recurring contract.





- Last Invoice Billing Period Displays the billing period on which that the last invoice was generated by the billing engine for the recurring contract.
- **Default Payment Terms** Displays the **Default Payment Terms** entered for the billing code in the **Billing Code Setup**. If empty, the system will look to the value on the customer card.
- **Default Payment Method** Displays the **Default Payment Method** entered for the billing bode in the **Billing Code Setup**. If empty, the system will look to the value on the customer card.
- Default Payment Service Displays the Default Payment Service entered for the billing code in the Billing Code Setup. If empty, the system will look to the value on the customer card.

The following fields are contained in the **Recurring Lines** FastTab (Figure 8-27):

	Item No.		Description	Unit of Measure	Quantity	Unit Price	Discount %	Starting Date	Ending Date	Blocked	Amount	Force Zero Price	J
\rightarrow	70065	÷	App 1 - Monthly	PCS	1.00	75.00	0				75.00		E
	70066		App 2 - Monthly	PCS	2.00	105.00	5				199.50		E
¢													•
ot	al Amount											274	50



- Item No Enter the item to be billed on the contract line. Choose from a list of existing items from your Microsoft Dynamics 365 Business Central database.
- **Description** Displays the description of the item entered in item no.
- Unit of Measure Enter a unit of measure. Defaults to the unit of measure on the item card.
- **Quantity** Enter the quantity of the item to be billed.
- Unit Price Enter the price for the item to be billed. Defaults to 0. Click the Assist Edit to the right of this field to find the best price for the item.





When the **Enforce Zero Contract Price** on the **SD Billing Engine Setup** is switched off and if the unit price on the recurring contract line is 0 then, when the suggest billing lines routine is run, SD Billing Engine will find the best price using the sales order find best price routine.

If the **Enforce Zero Contract Price** on the **SD Billing Engine Setup** is switched on, then SD Billing Engine will use the zero price on the contract line when the suggest billing lines routine is run.

- **Discount %** Enter the discount % for the item price to be billed.
- Starting Date Enter the date that the contract line is due to start/is valid from. This date will determine if the contract line is included in the Suggest Lines action on the Suggested Billing Lines page. If a contract line has expired, the Item No. is highlighted with red styling.
- Ending Date Enter the date that the contract line is due to end/is valid up to. This date will determine if the contract line is included in the Suggest Lines action on the Suggested Billing Lines page. If a contract line has expired, the Item No. is highlighted with red styling.
- **Blocked** Select this checkbox to block the contract line. A blocked contract line will not be included in billing calculations.
- **Amount** Displays the amount for the recurring contract line.
- Force Zero Price Allows individual lines to use a zero-contract price if the Enforce Zero Contract Price on the SD Billing Engine Setup is switched off.
- Job Code Enter the job code for the recurring contract line.
- **Total Amount** Displays the total amount of the contract lines on the contract.





The **Recurring Contract Card** contains the following actions on the action bar (*Figure 8-28*):

Recurring Card		
BE-CT0005)	
🖬 Contract Tracker	Previous Versions	🔊 Reset Contract



 Contract Tracker – Choose this action to view the amount and quantity changes that have been made on the contract. From the Contract Tracking list, you can choose the Show Change Detail action which displays detailed line level tracking contract changes (Figure 8-29).

🔎 Search 🔳 Sł	now Change Detail	Automate \vee	Fewer opt
Views	×	Entry No.↓	Contra T
All	:		



The Change Type on the summary Contract Tracking displays an increase or a decrease. The Entry Type on the detailed Contract Tracking specifies if there was a quantity change or a price change.

On **upgrading to version 5.0.0 of SD Billing Engine**, detailed Contract Tracking entries are created from existing details in the Contract Versions. An action to build the Contract Tracker Detail table, **Run Contract Tracker Upgrade** is surfaced on the **SD Billing Engine Setup** card. This action calls upgrade code which creates a new version of all existing Contracts; builds the Contract Tracker Detail table; updates Creation records in Contract Header to increase; updates Removal records in Contract Header to decrease; and sets an Upgrade Boolean field on the Billing Engine Setup table to false.

• **Previous Versions** – Select this action to view the previous archived versions of the contract. A contract is archived and versioned when moved from **Live** to **New.** You can drill down and see previous versions of the contract from here.





Archived versions of a contract can be reinstated as the current version, or a new contract can be created from the archived version.

• **Reset Contract** – Chose this action to reset the contract. This action archives the contract, reinstates the contract with the same number and allows the user to modify the Next Invoice Date, the Billing Code, or the Currency Code on the contract.

User Guide: SD Billing Engine





8.7 Activity Lines List

The **SD Billing Engine Activity Lines** list, accessed by searching the Tell Me, or by drilling through on the **Activity Lines** cue in the **SD Billing Engine Role Centre** (*Figure 8-30*), allows you to define activity-based billing either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.

CRONUS Inte	ernational Ltd.					
Actions Billing Setup 	> Billing Codes					
SD Billing Engi	ine Activitites -	Active Billing				
			1		Actions	
New Contracts	Live Contracts	Activity Lines 30	Manual Lines 3	Suggested Billi Lines	کی Setup	Billing Cod
>	>	>	>	>		
SD Billing Engi	ine Activitites -	Historical Billing	1			
Archived Contracts	Activity Line Archive	Manual Line Archive	Unposted Invoices	Unposted Orders	Posted Invoices	
2	0	0	0	0	3	
			→ →	$\frac{\bullet}{\rightarrow}$	$\frac{\mathbf{U}}{\mathbf{U}}$	
>	>	>	>	>	>	

Figure 8-30

The price on the activity line is the price that your customer is billed. If the price on the activity line is 0, then, when the suggest billing lines is run, it will find the best price, if it exists, using the sales order find best price routine.

The **Activity Lines Archive** table is populated when the invoice has been created and posted for the activity line.

The SD Billing Engine Activity Lines list contains the following fields (Figure 8-31):





Activity	Lines											۵ <i>۲</i> ,
∕⊃ Se	arch N	ew	🐯 Edit List	📋 Delete	Process	🚺 Open in Exce	Action:	Fewer options				7 ≣ (
Home	·∨											5
En	itry No. †		Billing Type	Source Billing Code	Source Customer No.	Source Activity Date	Source Quantity	Source Unit of Measure	Source Location Code	Sourc		
\rightarrow	1	:	Activity	SALES PICK	10000	12/01/2022	1.00	PCS	GREEN		Activity Lines FactBox	
	2		Activity	SALES PICK	10000	14/01/2022	1.00	PCS	GREEN			
	3		Activity	SALES PICK	10000	15/01/2022	1.00	PCS	RED		Count of Lines	24
	4		Activity	SALES PICK	10000	23/01/2022	1.00	PCS	RED		Sum Total Qty	24.00
	5		Activity	SALES PICK	10000	24/01/2022	1.00	PCS	RED		No. of Error Lines	0
	6		Activity	SALES PICK	10000	28/10/2020	1.00	PCS			Customer Details	
	7	:	Activity	SALES PICK	10000	07/11/2020	1.00	PCS			No.	10000
	8		Activity	SALES PICK	10000	07/11/2020	1.00	PCS			Lines	24
	9		Activity	SALES SHIP	10000	12/01/2022	1.00	PCS	GREEN		Quantity	24.00
	10		Activity	SALES SHIP	10000	14/01/2022	1.00	PCS	GREEN		Billing Code Lines	SALES PICK
	11		Activity	SALES SHIP	10000	15/01/2022	1.00	PCS	RED		Quantity	16.00
	12		Activity	SALES SHIP	10000	23/01/2022	1.00	PCS	RED			
	13		Activity	SALES SHIP	10000	24/01/2022	1.00	PCS	RED		Billing Code Details	
	14		Activity	SALES SHIP	10000	28/10/2020	1.00	PCS			Source Billing Code Lines	SALES PICK 16
	15		Activity	SALES SHIP	10000	07/11/2020	1.00	PCS			Quantity	16.00
	16		Activity	SALES SHIP	10000	07/11/2020	1.00	PCS			,	
	17		Activity	SALES PICK	10000	28/10/2020	1.00	PCS				
	18		Activity	SALES PICK	10000	07/11/2020	1.00	PCS				
	19		Activity	SALES PICK	10000	07/11/2020	1.00	PCS				

Figure 8-31

- Entry No. Displays the entry number for the activity line.
- **Billing Type** Displays a billing type of **Activity**.
- **Billing Source Code** Displays the billing code associated with the source activity line. Either imported from an external source, or, generated from your Item Ledger Entry based on activity in the period selected.
- Source Customer No. Displays the customer number of the source activity line.
- **Source Activity Date** Displays the activity date of the source activity line. Either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.
- **Source Quantity** Displays the quantity of the source activity line. Either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.
- Source Unit of Measure Displays the unit of measure of the source activity line. Either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.





- Source Location Code Displays the unit of measure of the source activity line. Either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.
- **Source Price** Displays the price of the source activity line. Either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.
- **Source Description** Displays the description of the source activity line. Either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.

For example, if the source of the activity line is the Item Ledger Entry and the **Setup Type** in the **SD Billing Engine Setup** is **Advanced**, the description is composed of the **Code** from the **SD Billing Engine Activity Advanced Setup** and the Document No. from the Item Ledger Entry.

- **Source Job No** Displays the job number of the source activity line. Either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.
- **Source Currency** Displays the currency of the source activity line. Either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.
- **Source Delivery Date** Displays the delivery date of the source activity line. Either imported from an external source, or, generated from your item ledger entry based on activity in the period selected.
- **Billing Code** When the activity line is validated the value of the **Source Billing Code** is transferred to this field.
- **Customer No.** When the activity line is validated the value of the **Source Customer No.** is transferred to this field. This field can be updated.
- Activity Date When the activity line is validated the value of the Source Activity Date is transferred to this field. This field can be updated.
- Item No. When the activity line is validated the value of the Item No. associated with the billing code in **Billing Code** is transferred to this field.





- **Quantity** When the activity line is validated the value of the **Source Quantity** is transferred to this field. This field can be updated.
- Unit of Measure When the activity line is validated the value of the Source Unit of Measure is transferred to this field. This field can be updated.
- Location Code When the activity line is validated the value of the Source Location Code is transferred to this field. This field can be updated.
- Unit Price When the activity line is validated the value of the Source Price is transferred to this field. This field can be updated.
- **Description** When the activity line is validated the value of the **Source Description** is transferred to this field. This field can be updated.
- Job Code When the activity line is validated the value of the Source Job No is transferred to this field. This field can be updated.
- **Currency** When the activity line is validated the value of the **Source Currency** is transferred to this field. This field can be updated.
- **Delivery Date** When the activity line is validated the value of the **Source Delivery Date** is transferred to this field. This field can be updated.
- Validate Errors Any validation errors for the source activity line are displayed here.
- Suggested Billing Line No. The suggested billing line number from the billing line that has been suggested for the activity line but has not yet had an invoice created for the associated billing line.
- Document No. The unposted invoice number that has been created for the activity line in the Suggested Billing Lines when the Generate Invoices action in the Suggested Billing Lines is run.
- Source Type Displays the source type for the activity lines. Values are Item Ledger Entry, Warehouse, External and Extension.
- **Source Entry No.** The Entry No of the source. For example, if the Source Type is Item Ledger Entry, then the entry number from the Item Ledger Entry is displayed here.





To generate the activity lines, either imported from an external source, or, generated from your Item Ledger Entry based on activity in the period selected, from the **SD Billing Engine Activity Lines** list, from the action bar, in the **New** group, select **Get Entries** (*Figure 8-32*).

🔎 Search	New	🐯 Edit List	间 Delete	Process	💶 Open in Exce	Actions	Fewer optior
📝 Get Entr	ies						
Entry No	. 1	Billing Type	Source Billing Code	Source Customer No.	Source Activity Date	Source Quantity	Source Unit of Measure
\rightarrow	1 :	Activity	SALES PICK	10000	12/01/2022	1.00	PCS

Figure 8-32

To limit the activity lines generated, you can enter customer and date filters (Figure 8-33):

15/01/2022 1	00	DCS	REI	٦		
					\swarrow	
Customer No.	[\sim	
Period Start Date	*					
Period End Date	*				Ē	
			Yes		No	



When generating the activity lines from your Item Ledger Entry based on activity in the period selected, you are notified of any items that have been excluded from the **Get Entries** due to missing a customer dimension value (*Figure 8-34*). Receiving this notification is dependent on having the **Disable Item Notifications** in the **SD Billing Engine Setup** switched off.

,	arch New	🐼 Edit List	📋 Delete	Process	Open in Excel	More o	ptions		
📝 Get	t Entries								
Ent	try No. †	Billing Type	Source Billing Code	Source Customer No.	Source Activity Date Sourc	e Quantity	Source Unit of Measure	Source Location Code	Sou







If you want to set a customer dimension value on one of the missing items for inclusion in the **Get Entries**, select the **Full List of Items** notification (*Figure 8-35*).

× Items were excl	uded due to m	issing Custome	er Dimension v	value. Full list of Items. Do	not show.		
✓ Search <u>New</u>	🐯 Edit List	📋 Delete	Process	Open in Excel More	e options		
📝 Get Entries							
Entry No. †	Billing Type	Source Billing Code	Source Customer No.	Source Activity Date Source Quantit	Source Unit of y Measure	Source Location Code	So
			(There is no	thing to show in this view)			

Figure 8-35

The list of items is presented in an information message like that below (*Figure 8-36*). You can highlight and copy the items in the information message and paste the copied text into an item no. filter on the standard **Item** list for easy update of the items.

(i)	The following items were missing Customer Dimension Value: 1600 1700 1710 1720 1800 1850 1896-\$ 1900 1900-\$ 1906- \$ 1908-\$ 1920-\$ 1924-W 1928-\$ 1928-W 1936-\$ 1952-W 1960- \$ 1964-W 1968-\$ 1968-W 1972-\$ 1972-W 1976-W 1980- \$ 1984-W 1988-\$ 1988-W 1992-W 1996-\$ 2000- \$ 70000 70001 70002 70003 70010 70011 70040 70041 70060 701 00 70101 70102 70103 70104 70200 70201 766BC-A 766BC- B 766BC-C 80100 8908-W 8916-W 8924-W C-100 FF-100 HS- 100 LS-100 LS-10PC LS-120 LS-150 LS-2 LS-75 LS-MAN-10 LS- \$15 LSU-15 LSU-4 LSU-8 SPK-100
	ОК

Figure 8-36

Having highlighted the item numbers in the information message above, navigate to the standard **Item** list and paste the copied text into the item no. filter on the standard **Item** list. Navigate to the item that you wish to update for inclusion in the activity lines (*Figure 8-37*).





✓ Search + Nev	w Manage Pro	cess Report	lte	m Request Approval	Inventory Attributes	🚺 Open in	Excel
Views	×	No. † 🝸		Description	Туре	Inventory	Substi Exist
<u>*All</u>		<u>1600</u>	:	Bell	Inventory	151	No
Filter list by:		1700		Brake	Inventory	152	No
× No.		1710		Hand rear wheel Brake	Inventory	200	No
1600 1700 1710 1720	1800 1850 18 ∨	1720		Hand front wheel Brake	Inventory	200	No
+ Filter		1800	:	Handlebars	Inventory	152	No
		1850		Saddle	Inventory	152	No

Figure 8-37

In the **Item** card from the action bar, in the **Related** group, choose **Item** and then **Dimensions** (*Figure 8-38*).

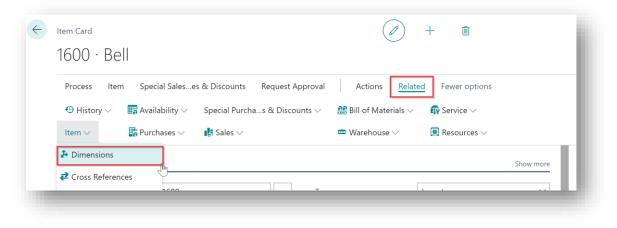


Figure 8-38

Select the Dimension Code that you have defined for the **Customer Dimension** in the **SD Billing Engine Setup** (*Figure 8-39*). (**Note:** The Dimension Code does not need to be called Customer you could set up a Dimension Code called, for example, Billing Engine Customer.)





De	efault I	Dimensions / P Search + New	🐯 Edit	List	<u> </u> Delete	💶 Open in	Excel		∇	
		Dimension Code †		Dimen	sion Value Code			Value Posting		
	\rightarrow	CUSTOMER					\sim			
					Code		Name			
				\rightarrow	01905893		Custo	mer 01905893		
					10000		Custo	omer 10000		
					20000		Custo	omer 20000		
									Sel	ect from full lis

Figure 8-39

Select a Dimension Value Code for the Dimension Code selected (*Figure 8-40*). (**Note:** The Code for the Dimension Value Code must match the Customer No on the Customer Card.)

Dimension Code † Dimension Value Code Value Posting	Default Dimensions \checkmark Search + New	🚯 Edit List 🛍 Delete 🖬 Open in Excel 🍸 🔚
	Dimension Code †	Dimension Value Code Value Posting
→ CUSTOMER 10000 ~		10000 ~



To validate the activity lines so the activity lines can be submitted for billing and are included in the for selection in the **Suggested Billing Lines**, in the **SD Billing Engine Activity Lines** list, from the action bar, in the **Process** group, select **Validate Selected** or **Validate All** (*Figure 8-41*).

🔎 Search 🛛 New	🐯 Edit List	📋 Delete	Process	💶 Open in Exc	el Act	ions Fewer	options
Salidate Selected	d 📮 Valida	te All					
			Source	Suggested			
		Source	Customer	Billing Line	Document		Source Entry



Activity lines must be validated before they can be submitted for billing.





8.8 Manual Lines List

The **SD Billing Engine Manual Lines** list, accessed by searching the Tell Me, or by drilling through on the **Manual Lines** cue in the **SD Billing Engine Role Centre** (*Figure 8-42*), allows you to manually log special charges for items and events (e.g., special haulage costs, inspection certs, pallet rebuilds, splitting out pallets, backup restore events).

CRONUS	nternational Ltd.					
Actions Billing Set 	up > Billing Codes					
SD Billing E	ngine Activitites -	Active Billing				
					Actions	
New Contrac	ts Live Contracts	Activity Lines	Manual Lines	Suggested Billi Lines	50 2	\bigcirc
1	3	30	3	2	Setup	Billing Cod
>		>	>	→		
SD Billing E	ngine Activitites -	Historical Billing				
Archived	Activity Line	Manual Line	Unposted	Unposted Orders	Posted Invoices	
Contracts	Archive	Archive		\cap	2	
۷	U	0	0	0	3	
>	>	>	>	>	>	



The price on the manual line is the price that your customer is billed. If the price on the manual line is 0, i.e., there is no price entered on the manual line, then, when the suggest billing lines is run, it will find the best price, if it exists, using the sales order find best price routine.

The **Manual Lines Archive** table is populated when the invoice has been created and posted for the manual line.





The **SD Billing Engine Manual Lines** list contains the following fields (*Figure 8-43*):

Search N	ew Manage	Process 🛛 🗱 Open in Excel			
Create from	Template 🕂	New			
Activity Date	Customer No.	Customer Name	Billing Code 🗸 🗸	Description	Quantity
06/01/2021	01454545	New Concepts Furniture	WH JOBS	Warehouse Jobs	3.00
06/01/2021	01445544	Progressive Home Furnishings	WH JOBS	Warehouse Jobs	1.00
06/01/2021	30000	John Haddock Insurance Co.	LABELS	Affixing Labels	1.00
06/01/2021	01454545	New Concepts Furniture	PALLET REBUI	Pallet Rebuild	4.00
06/01/2021	01454545	New Concepts Furniture	LABELS	Affixing Labels	10.00



- Activity Date Displays the date of the manually entered activity, i.e., the date that the manual event was logged.
- **Customer No.** Displays the customer no. for whom the manual activity was logged.
- **Customer Name.** Displays the name of the customer entered in **Customer No.**
- **Billing Code** Displays the billing code for the manual activity.
- **Billing Description** Displays the billing code description.
- Quantity Displays the quantity entered by the user.
- **Price** Displays the price for the manual activity.
- Unit of Measure Displays the unit of measure for the manual activity.
- **Created Date Time** Displays the date time that the manual activity was logged.
- **Created User ID** The user id of the user who created/logged the manual activity.
- Suggested Billing Line No. Displays the suggested billing line no that has been generated for the manual activity line. This enables users to easily determine if a billing line has been generated for the manually entered activity.





- **Invoice No.** Displays the unposted invoice number that the manually entered activity line has been invoiced to if the suggest billing lines have been run and an invoice generated for the manual line.
- Validate Errors Displays any validation errors that must be corrected before the manually entered activity line can be inserted onto the billing lines entry table.
- Entry No. The entry no for the manual activity line.
- Job Code The job code entered for the manual activity line.

To access an existing Manual Line from the SD Billing Engine Manual Lines list, from the action bar, in the Manage group, select View, or Edit. To log a new Manual Event, from the Home tab, in the New group, select New (Figure 8-44).

lew Manage	Process 🛛 🚺 Open in Excel		
n Template 🛛 🕂	New		
Customer No.	Customer Name	Billing Code	Description
	Customer No.	Customer No. Customer Name	Customer No. Customer Name Billing Code

Figure 8-44

- **Create from Template** Choose this action to easily log a manual event or task using a pre-defined template.
- New Choose this action to open the SD Billing Engine Manual Activity Card and log a manual event or task.





The **Manual Lines** list page contains the following action on action bar in the **Process** group *(Figure 8-45)*:

🔎 Search	New	Manage	Process	💶 Open in Excel		
🖵 Template	es					
Activity Date		Customer No.	Customer N	lame	Billing Code	Description
		01454545	New Con		WH JOBS	Warehouse Jobs

Figure 8-45

• **Templates** – Choose this action to view existing manual templates or to create a new template.





8.9 Manual Lines Card

The **SD Billing Engine Manual Activity Card,** accessed from the **SD Billing Engine Manual Lines** list, allows you to manually log special charges for items and events (e.g., special haulage costs, inspection certs, pallet rebuilds, splitting out pallets, backup restore events) and contains the following fields in the **General** FastTab (*Figure 8-46*):

General					
Template Code	RESTORE BACKUP	\sim	Activity Date	07/01/2021	Ē
Billing Code	RESTORE BACKUP	\sim	Billing Description	Restore Backup	
Customer No.	10000	\sim	Customer Name	The Cannon Group PLC	



- **Template Code** Select a template code for the manual activity that you want to log. You can create and use manual templates to quickly log commonly recorded events. You can choose to leave the **Template Code** blank.
- Activity Date Defaults to today's date. Enter the date that you are logging the activity for.
- **Billing Code** Select the billing code for the manual activity.
- **Billing Description** Displays the description for the billing code entered in **Billing Code**. Users can overtype this description.
- **Customer No.** Select the customer for whom you are logging the manual activity.
- Customer Name. Displays the name of the customer entered in Customer No.





The **SD Billing Engine Manual Activity Card** contains the following fields in the **Details** FastTab *(Figure 8-47)*:

Manual Ad	ctivity Card						
General >							
Details							
Quantity		1.00	Curro	ncy Code			
Unit of Measure	bee			icy code			145.50
		~					145.50
Item No.	70065		ltem [Description	Backup Servic	e	

Figure 8-47

- **Quantity** Enter the quantity of the event or task you are logging.
- Unit of Measure Enter a unit of measure for the event or task you are logging.
- Item No. Displays the item no. for the billing code entered.
- **Currency Code** Displays the customer's currency code.
- **Price** Enter a price for the task or activity you are logging. The price on the manual line is the price that your customer is billed. If the price on the manual line is 0, i.e., there is no price entered on the manual line, then, when the suggest billing lines is run, it will find the best price, if it exists, using the sales order find best price routine.
- Item Description Displays the description for the item in Item No.





The Validation FastTab contains the following fields (Figure 8-48):

Quantity		0.00	Currency Code		
Unit of Measure	PCS	\sim	Price		145.50
Item No.	70065		Item Description	Backup Service	
Validation					
Validata Errore		" Quanti	ty must be defined."		
			·		

Figure 8-48

• Validate Errors- Displays any validation errors for the task that you are logging. E.g., if a quantity is not entered on the manual activity card, then a validation error will be displayed here.

The **Recent Entries** FastTab displays entries that were recently entered on the system. This is designed so users will see the last tasks logged to aid with avoiding duplicate entries and to help users avoid forgetting to log entries. The **Recent Entries** FastTab contains the fields described above with the addition of the following fields (*Figure 8-49*):

General >						
Details						
Quantity		1.00	Currency Code			
Unit of Measure	PCS	\sim	Price			145.50
line and the						
Validation >	70065		Item Description	Backu	o Service	
	70065	_	Item Description	Backuj	o Service	
Validation >	70065 Billing Description	Item No.	Item Description	Quantity	D Service	E ¹ Customer Ni
Validation > Recent Activities		Item No. 70065				
Validation > Recent Activities Billing Code	Billing Description		Item Description	Quantity	Customer No.	Customer Na
Validation > Recent Activities Billing Code → RESTORE BACKUP	Billing Description Restore Backup	70065	Item Description Backup Service	Quantity 0.00	Customer No. 10000	Customer Na
Validation > Recent Activities Billing Code → RESTORE BACKUP RESTORE BACKUP	Billing Description Restore Backup Restore Backup	70065 70065	Item Description Backup Service Backup Service	Quantity 0.00 1.00	Customer No. 10000 10000	Customer Na The Can The Can
Validation > Recent Activities Billing Code → RESTORE BACKUP RESTORE BACKUP LABELS	Billing Description Restore Backup Restore Backup Affixing Labels	70065 70065 70068	Item Description Backup Service Backup Service Labels	Quantity 0.00 1.00 10.00	Customer No. 10000 10000 01454545	Customer Na The Can The Can New Cou

Figure 8-49





- Created Date Time Displays the date/time that the event was logged.
- **Created User ID** Displays the name of the user that logged the event.





8.10 Manual Template List

Manual Template List page, accessed from the **Manual Lines** list page, allows you create templates to log a manual task, using pre-defined values, easily and quickly.

The Manual Template List page contains the following fields (Figure 8-50):

✓ Search + New	Manage	V Open	in Excel				7 🗉
Code 1	Customer No.	Customer Name	Billing Code	Billing Code Description	Billing Type	ltem No.	Item Description
ADD A LABEL			LABELS	Affixing Labels	Manual	70068	Labels
CLEAN AREA			WH JOBS	Warehouse Jobs	Manual	70072	Manual Warehou
RESTORE BACKUP			RESTORE BACKUP	Restore Backup	Manual	70065	Backup Service
WRITE CERT			WH JOBS	Warehouse Jobs	Manual	70072	Manual Warehou



- **Code** Displays the user defined code tor the template.
- **Customer No.** Displays the customer no. that the template is created for. This can be left blank.
- Customer Name Displays the name of the customer in Customer No.
- **Billing Code** Displays the template's billing code.
- Billing Description Displays the description for the billing code in Billing Code.
- **Billing Type** Displays a billing type of **Manual**.
- Item No. Displays the template's item code.
- Item Description Displays the description for the item in Item No.
- **Quantity** Displays the quantity to log.
- Unit of Measure Displays the unit of measure to log.





• **Price** – Displays the price for the task.

To access an existing **Manual Template** from the **SD Billing Engine Manual Template List** page, from the action bar, in the **Manage** group, select **View**, or **Edit**. To create a new **Manual Template**, from the action bar, in the **New** group, select (*Figure 8-51*).

SE Shing Light	e Manual Template Li	50					
🔎 Search -	+ New Manage	🚺 Open	in Excel				7 :
🖍 Edit 🛛 🧕	View <u> </u> Delete						7
Code †	Customer No.	Customer Name	Billing Code	Billing Code Description	Billing Type	Item No.	Item Description
ADD A LABEL			LABELS	Affixing Labels	Manual	70068	Labels

Figure 8-51





8.11 Manual Template Card

The **SD Billing Engine Manual Template Card**, accessed from the **SD Billing Engine Manual Template List**, allows you to create templates to log a manual event or task, using pre-defined values, easily and quickly and contains the following fields (*Figure 8-52*):

New			
General			
Code · · · · · · · · · · · · · · · · · · ·	ADD A LABEL	Billing Type	Manual
Billing Code · · · · · · · · · I	ABELS ~	Billing Code Descripti	Affixing Labels
Customer No.	~	Customer Name	
Item No.	70068	Item Description	Labels
Details			
Details			
Quantity	1.00	Unit of Measure	PCS ~
Quantity · · · · · · · · · · · · · · · · · · ·	0.95	Unit of Measure	PCS ~

Figure 8-52

- **Code** Enter a user defined code for the template.
- **Billing Type** Displays a billing type of **Manual**.
- **Billing Code** Enter a billing code for the template.
- **Billing Description** Displays the description of the billing code in **Billing Code**.
- **Customer No.** Select the customer no. that the template is created for. This can be left blank.
- Customer Name Displays the name of the customer in Customer No.
- Item No. Displays the template's item code.
- Item Description Displays the description for the item in Item No.





- **Quantity** Enter the quantity to log.
- Price Enter the price to log.
- Unit of Measure Enter the unit of measure to log.





8.12 Suggested Billing Lines

The **SD Billing Engine Suggested Billing Lines** list, is accessed from the **SD Billing Engine Role Centre**, by drilling through on the **Suggested Billing Lines** cue (*Figure 8-53*) or by searching for the page in the Tell Me.

CRONUS II	nternational Ltd	. ∣ ≡				
Actions Billing Setu 	p > Billing Code	5				
SD Billing Er	ngine Activitites -	Active Billing				
New Contracts	- 3	Activity Lines 30 >	Manual Lines 3 >	E Suggested Billi 2 >	Actions Setup	Billing C
	ngine Activitites -		-			
Archived Contracts	Activity Line Archive	Manual Line Archive	Unposted Invoices	Unposted Orders	Posted Invoices	
2	0	0	0	0	3	
		· · · · · · · · · · · · · · · · · · ·	- <u>-</u>		>	



If there is no unit price on the contract line and the **Enforce Zero Contact Price** on the **SD Billing Engine Setup Card** is switched off, then the find best price logic is evoked in the suggest billing lines.

For contract lines, if the **Enforce Zero Contract Price** on the **SD Billing Engine Setup Card** is switched on, then the zero prices on the contract lines are used, rather than using the standard find best price functionality for the items on the contract lines with a zero price.

Otherwise, SD Billing Engine uses the price as entered on the contract line.





Consolidation of billing lines happens when the invoices are generated for the lines. Activity and manual lines are aggregated to a single line per billing code per customer per billing period. Recurring lines are not aggregated.

The **Suggested Billing Lines** list contains the following fields (*Figure 8-54*):

gg	ested Bil	lling	Lines											L]	1
0	Search	₽	Edit List	Delete Process	Reports	Open in Excel	More optio	ons						2	7	
*	Suggest	: Line	es 📄 Ger	nerate Invoices 🛛 🖷	Generate Orders											
	Entry No. †		Billing Type	Recurring Billing Period	External Document No.	Billing Code	Customer No.	Activity Date	ltem No.	Quan	Unit of Measure	Unit Price	Amount	Description		
	1	÷	Recurring	30/12/2029/01/21	SOFTWARE 01	SOFTWARE SERVIC	60000	01/01/2021	70073	1.00	PCS	300.00	300.00	BE-RE00003		
	2		Recurring	30/12/2029/01/21	SOFTWARE 01	SOFTWARE SERVIC	60000	01/01/2021	70074	1.00	PCS	350.00	350.00	BE-RE00003		
	3		Recurring	30/12/2029/01/21	SOFTWARE 01	SOFTWARE SERVIC	60000	01/01/2021	70075	1.00	PCS	1,500.00	1,500	BE-RE00003		
	4		Manual			LABELS	30000	06/01/2021	70068	1.00	PCS	0.50	0.50	Affixing Labels		
	5		Manual			WH JOBS	01445544	06/01/2021	70072	1.00	PCS	15.41	15.41	Warehouse Jobs		
	6		Manual			WH JOBS	01454545	06/01/2021	70072	3.00	PCS	15.41	46.24	Warehouse Jobs		
	7		Manual			PALLET REBUILD	01454545	06/01/2021	70076	4.00	PCS	23.12	92.48	Pallet Rebuild		
	8		Manual			LABELS	01454545	06/01/2021	70068	10.00	PCS	1.46	14.64	Affixing Labels		
	9		Manual			RESTORE BACKUP	10000	06/01/2021	70065	1.00	PCS	145.50	145.50	Restore Backup		
	10		Manual			RESTORE BACKUP	10000	07/01/2021	70065	1.00	PCS	145.50	145.50	Restore Backup		

Figure 8-54

- Entry No. Displays the entry no. for the billing line.
- **Billing Type –** Displays the type of the billing line **Recurring**, **Activity** or **Manual**.
- **Recurring Billing Period** Applicable for billing lines of **Billing Type Recurring**. Displays the billing period for recurring billing lines.
- External Document No. Applicable for billing lines of Billing Type Recurring. Displays the external document no. as entered on the contract card.
- **Billing Code** Displays the billing code for the line.
- **Customer No.** Displays the customer no. for whom the lines have been generated. The customer to be billed.
- Activity Date For billing lines of Billing Type Manual or Activity this date can be edited.
- Item No. Displays the item no for the billing line.





- Item Description Displays the description for the item in Item No.
- **Quantity** Displays the quantity for the line. For billing lines of Billing Type Recurring, this is the quantity as specified on the contract line. For billing lines of Billing Type Manual, this is the quantity as logged by the user when entering the manual activity line. For billing lines of Billing Type Activity, this is the quantity on the activity line.

For billing lines of Billing Type Manual or Activity this quantity can be edited.

- Unit of Measure For billing lines of Billing Type Recurring, this is the unit of measure as specified on the contract line. For billing lines of Billing Type Manual, this is the unit of measure as logged by the user when entering the manual activity line. For billing lines of Billing Type Activity, this is the unit of measure on the activity line.
- Unit Price Displays the unit price that the customer will be billed.

The find best price logic is evoked in the suggest billing lines. This allows users to have the correct price before generating invoices and removes the need for roll back of invoices after generation.

For contract lines, if the **Enforce Zero Contract Price** on the **SD Billing Engine Setup Card** is switched on, then the zero prices on the contract lines are used rather than using the standard find best price functionality for the items on the contract lines with a zero price.

- Amount Displays the amount for the billing line.
- **Description** Displays the description of the billing line. For billing lines of **Billing Type Recurring**, this is the contact no. For billing lines of **Billing Type Manual**, this is the billing code description.
- Billing Date Applicable for billing lines of Billing Type Recurring. Displays the Billing Date.
- **Test Errors** Applicable for all billing types. When the Suggest Lines action is selected, SD Billing Engine checks that the customer is not blocked and that the item is not blocked. If blocked, an error is stamped on the line.





The **Billing Totals** FactBox on the page displays the following fields (*Figure 8-55*):

Billing Totals	
All Lines	12
Total Amount	2,700.27
Zero Price Lines	0



- All Lines Displays a count of all lines, irrespective of billing type, on the Suggested Billing Lines list.
- **Total Amount** Displays the total amount of all lines, irrespective of billing type, on the Suggested Billing Lines list.
- Zero Price Lines Displays a count of the lines on the page that have a zero price. This enables users to easily identify and rectify zero price lines.

The Billing Lines FactBox displays the following fields (Figure 8-56):

Billing Lines	
Breakdown by Customer	
No.	60000
Amount	2,240.00
Customer, Billing Type	
Amount	90.00
Customer, Billing Code	
Quantity	9.00
Amount	90.00
Billing Type	
Туре	Manual
Amount	550.27
Billing Code	
Code	WH JOBS
Amount	151.65

Figure 8-56

Breakdown by Customer

- No. Displays the customer no. on the billing line.
- Amount Displays the total amount for the customer on the billing lines.





Customer, Billing Type

• **Amount** – Displays the total amount for the customer, for the billing lines with the billing type of the current billing line.

Customer, Billing Code

- **Quantity** Displays the total quantity for the customer, for the billing lines with the billing code of the current billing line.
- **Amount** Displays the total amount for the customer, for the billing lines with the billing type of the current billing line.

Billing Type

- **Type** Displays the billing type of the current billing line.
- **Amount** Displays the total amount for the billing lines with the billing type of the current billing line.

Billing Code

- **Code** Displays the billing code of the current billing line.
- **Amount** Displays the total amount for the billing lines with the billing code of the current billing line.

The **Suggested Billing Lines** page contains the following actions on the action bar's **Process** group (*Figure 8-57*):

🔎 Search	📴 Edit List	Delete Proc	ess Reports	💶 Open in Excel	More opt	ions	
📝 Suggest	Lines 🛛 🔂 G	enerate Invoices	🐻 Generate Order	rs			
Entry	Billing	Recurring Billing	External		Customer		It
No. 1	Type	Period	Document No.	Billing Code	No.	Activity Date	N







• **Suggest Lines** – Choose this action to suggest the lines that are due to be billed. If lines already exist user on the page, the user is prompted that the existing lines will be deleted.

When the **Suggest Lines** action is selected, the user can choose to run Suggest Lines for All, Recurring, Activity or Manual billing types. The Suggest Billing to Date is set to the work date by default. Users can also enter a billing code (to filter on a billing code), a customer code (if they want to restrict to a single customer run) and an activity date (used to filter manual and activity lines up to and including this date). *(Figure 8-58)*.

Suggested Billing Types	All			
	O Recurring			
	○ Activity			
	⊖ Manual			
Suggest Billing to Date	26/01/2023			<u></u>
Billing Code				\sim
Customer No.				\sim
Activity Date				
	Г			
		Yes	N	lo



If there are errors on the activity or manual lines, these lines will be skipped and will not be included in the suggested lines.

If the recurring, activity, or manual elements are not enabled on the SD Billing Engine Setup Card then the lines will be skipped.

For a Billing Type of Recurring, SD Billing Engine checks that the contract is active and that the contract has lines. Lines are then inserted into the suggest billing lines table. A check is run to test that the customer is not blocked. If the customer is blocked an error is stamped on the suggest billing lines. A check is run to test that the item is not blocked and if blocked an error is stamped on the suggest billing lines. If there is no unit price on the contract line and the **Enforce Zero Contact Price** on the SD Billing Engine Setup Card is switched off, then SD Billing Engine uses the sales order find best





price routine for the zero price lines. Otherwise, SD Billing Engine uses the price entered on the contract line. Contract billing dates will not be updated until the suggest billing lines are converted to sales invoices.

For a Billing Type of Activity, SD Billing Engine checks that the customer is not blocked. If the customer is blocked, an error is stamped on the suggest billing lines. A check is run to test that the item is not blocked and if blocked an error is stamped on the suggest billing lines. If there is no unit price on the activity line, then SD Billing Engine uses the sales order find best price routine.

For a Billing Type of Manual, SD Billing Engine checks that the customer is not blocked. If the customer is blocked an error is stamped on the suggest billing lines. A check is run that the item is not blocked. If the item is blocked an error is stamped on the suggest billing lines. If there is no unit price on the manual line, then SD Billing Engine uses the sales order find best price routine.

• **Generate Invoices** – Choose this Action to generate unposted sales invoices for the suggested billing lines.

You can enter a specific billing code and/or customer number to filter down on the billing lines to be generated. You can also enter an activity date to stamp a date on the invoice (applicable for manual or activity lines) (*Figure 8-59*).

	2
lling Code · · · · · · · · · · · · WH JOBS	\sim
ustomer No.	~
ctivity Date 07/01/2021	
[Yes No

Figure 8-59

For billing types of activity and manual, if the activity date is left blank, then todays date is used as the document date and the posting date on the invoice.





On choosing yes to generate invoices, a message is raised that x invoices have been created and you are prompted to navigate to the standard Microsoft Dynamics 365 Business Central Sales Invoices page (*Figure 8-60*).

	WH JOBS	01445544	06/01/2021	70072	1.0
?	2invoices created. Wou Invoices page?	ıld you like to p	proceed to the	Sales	
			Yes	No	
					-

Figure 8-60

For those invoices generated for recurring contracts, a text line is inserted on the invoice to denote the billing type of recurring.

For billing types of activity and manual, the lines will be aggregated if the billing code, customer, item, unit of measure and price are the same on the suggested billing lines.

The SD Billing Engine Setup is checked to determine if activity and/or manual lines are to be split onto separate invoices for the customer.

For activity lines and manual lines, once the invoice has been created and posted then the suggested billing lines are deleted and moved to the activity line archive (activity lines) or the manual lines archive (manual lines).

 Generate Orders – Choose this action to generate orders for the suggested billing lines.

Note: This action is applicable only if you are using SD Billing Engine to generate orders from an external source.





The **Suggested Billing Lines** page contains the following action on the action bar's **Reports** group (*Figure 8-61*):

🔎 Search	🐯 Edit List	<u> </u> Delete	Process	Reports	🚺 Open in Excel	Actio	ons Few	er option:	S
🗟 Unposted Invoices		Posted Invo	oices 🕻	Unbilled ILE	Lines				
Entry	Billing	Recurring Bill		External Document No	Billing Code	Custon		vity Date	lter No



- Unposted Invoices Choose this action to view the unposted sales invoices in your database. The standard Microsoft Dynamics NAV 365 Business Central Sales Invoice List is opened.
- **Posted Invoices** Choose this action to view all posted sales invoices in your database. The standard Microsoft Dynamics NAV 365 Business Central Posted Sales Invoice List is opened.
- **Unbilled ILE Lines** Choose this action to view the Item Ledger Entry lines that have not yet been billed by SD Billing Engine.





8.13 Contract Price Worksheet

The **SD Billing Contract Price Worksheet**, is accessed from the **SD Billing Engine Role Centre**, by drilling through on the **Contract Price Worksheet** cue (*Figure 8-62*) or by searching for the page in the Tell Me.

Contract Price Worksheet 2	Pending Price Changes	Historic Price Changes 17	Billing Codes
>	>	>	>

Figure 8-62

In the Contract Price Adjustment Worksheet, you choose the **Get Contract Price Lines** action to add the existing contract price lines to the Worksheet. Using the **Suggest Price Change**, **Set Unit Price**, **Set Take Effect Date** and **Set Discount Percentage** actions you can update the prices on the lines (*Figure 8-63*).

Manage	🕻 Get	Contract Pric	ce Lines 📭 S	Suggest Price Cha	inge 🏾 🍤 Set I	Unit Price 🏾 🍤 Set Take Effect Date	🍤 Set I	Discount Per	centage	 Apply Price 0 	Change 🛄 Pendi	ng Lines 🛛 …	67
Contract No.		Customer No.	Billing Code	Line No.	Item No. †	Description	Contr Status	Currency	Unit of Measure	Quantity	Current Unit Price	New Unit Price	Price Changed
BE-CT0018	1	40000	CODE 1	10000	1906-S	ATHENS Mobile Pedestal	Live	EUR	PCS	1.00	435.74	0.00	
BE-CT0021		20000	CODE 2	10000	1953-W	Guest Section 1	Live	-	PCS	1.00	81.60	0.00	
BE-CT0021		20000	CODE 2	20000	2000-S	SYDNEY Swivel Chair, green	Live	_	PCS	1.00	123.30	0.00	

Figure 8-63

When you have updated your prices, choose the **Apply Price Changes** action. This transfers the lines to a **Pending Price Changes** list (*Figure 8-64*).

Manage 📑	anage 📑 Get Contract Price Lines 🛛 🖺 Suggest Price Change				inge 🛛 🍤 Set l	Set Unit Price Set Take Effect Date Set		Set Discount Percentage		 Apply Price C 	Change 🛄 Pend	ing Lines 🛛 😶
Contract No.		Customer No.	Billing Code	Line No.	item No. †	Description	Contr Status	Currency	Unit of Measure	Quantity	Current Unit Price	New Unit Price
BE-CT0018	÷	40000	CODE 1	10000	1906-S	ATHENS Mobile Pedestal	Live	EUR	PCS	1.00	435.74	444.45
BE-CT0021		20000	CODE 2	10000	1953-W	Guest Section 1	Live	-	PCS	1.00	81.60	83.23
BE-CT0021		20000	CODE 2	20000	2000-S	SYDNEY Swivel Chair, green	Live		PCS	1.00	123.30	125.77

Figure 8-64





When the Suggest Lines on the next billing run is chosen, SD Billing Engine will apply all Pending Price changes that have a Take Effect Date less than or equal to the work date and within the Billing Period Range dates on the Contract.

You can view Historic Price Changes by drilling through on the **Historic Price Changes** cue in the **SD Billing Engine Role Centre** (*Figure 8-65*).

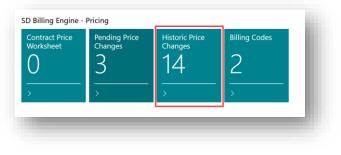


Figure 8-65



IT Simply Makes Business Sense with Microsoft Dynamics 365



Simply Dynamics has been delivering complex and custom Dynamics 365 Projects and Support since 2007. Now servicing clients in over 18 countries.



DynamicsShop delivers Dynamics 365 enhancements through App's and as SAAS solutions to bring next level automation to your Dynamics 365 Solution.



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