

 **Viewpoint**
Jobpac Connect[™]

S-Curves for W/H Forecasting
Function Guide
Version: 1.0

Document Control Table

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Release date	31/12/2021
Version	1.0
Commercial in Confidence	

Change History

Version	Date	Author	Description of Changes
1.0	31/12/2021	DMB	Initial Release

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S-Curves for WIH Forecasting

'S' Curve Library

This section outlines how you can set up and maintain the 'S' curve library. 'S' curves can be used at project level for spreading Work in Hand cost and turnover across the remainder of both secured and unsecured projects.

Set up 'S' curves

Flexible 'S' curve maintenance facilities can be used to review and add new S-Curves. To see a list of existing S-Curves use the option S-Curve Maintenance in System Administration menu.

TPP - S Curves Maintenance : Listing											
USAGE		AUDIT									
Hide		Apply		Clear						+	
From	Contains	From	Frm	From	From	From	From	From	A		
To		To	To	To	To	To	To	To	(A, I, ')		
S Curve Code	Description	Job Type	GC	Reporting Unit	Reporting Sub Unit	Usage Count Secured	Usage Count Unsecured	St:	St:		
SCURVE1	C1 Design & Construct	LUMPSUM	CM					1	A		
SCURVE2	C2 Construction Only	RATES	CW						A		
SCURVE3	C3 HR Residential Construction	LUMPSUM	CM					1	A		
SCURVE4	C4 Construction	MANAGE	CP						A		
SCURVE5	NF Special								A		

Field Name	Description
S Curve Code	Name of the 'S' curve. Used to assign to projects.
Description	'S' curve description.
Job Type	Job type. This limits this S-Curve to projects with this Job Type.
GC	Job group code. This limits this S-Curve to projects with this Group Code
Reporting Unit	Job reporting unit. This limits this S-Curve to projects with this Reporting Unit
Reporting Sub Unit	Job reporting sub unit. This limits this S-Curve to projects with this Reporting Sub-Unit
Usage Count – Secured Works	Number of secured works projects that are currently associated with the 'S' curve.
Usage Count – Unsecured Works	Number of unsecured works projects that are currently associated with the 'S' curve.
Status	Current status of 'S' curve – Active (A), Inactive (I).

S-Curves for WIH Forecasting

The Audit Tab shows who created the S-Curve and who the last person was who modified it.

TPP - S Curves Maintenance : Listing

ACTIONS OK BACK

USAGE **AUDIT**

Hide Apply Clear

S Curve Code	Description	Created By User	Created By Date	Last Updated User	Last Updated Date	Last Applied User	Last Applied Date
SCURVE1	C1 Design & Construct	KEMWAY0	16/02/2012	BOUDAMO	5/04/2021	BOUDAMO	5/04/2021
SCURVE2	C2 Construction Only	KWOOHS0	25/09/2011	KEMWAY0	16/02/2012	KEMWAY0	16/02/2012
SCURVE3	C3 HR Residential Construction	KEMWAY0	28/12/2011	KEMWAY0	16/02/2012	KEMWAY0	16/02/2012
SCURVE4	C4 Construction	KEMWAY0	28/12/2011	KEMWAY0	12/09/2013	KEMWAY0	12/09/2013
SCURVE5	NF Special	KEMWAY0	4/06/2013	KEMWAY0	4/06/2013	KEMWAY0	4/06/2013

Fields on the second 'S' curve maintenance screen – Audit.

Field Name	Description
S Curve Code	Name of the 'S' curve.
Description	'S' curve description.
Created By User	User id who created the 'S' curve.
Create By Date	Date of creation of the 'S' curve.
Last Updated User	User id who last updated the 'S' curve.
Last Updated Date	Date of the last change to the 'S' curve.
Last Applied User	User id who last applied the 'S' curve changes across secured and unsecured works projects.
Last Applied Date	Date of the last application of the values of the 'S' curve across the secured and unsecured works.

S-Curves for WIH Forecasting

Options available for 'S' curves.

TPP - S Curves Maintenance : Listing

USAGE **AUDIT**

Hide Apply Clear

S Curve Code	Description	Created By User	Created By Date	Last Updated	Last Updated Date	Last Applied User	Last Applied Date
SCURVE1	C1 Design & Construct	KEMWAYO	16/02/2012	BOUDAMO	5/04/2021	BOUDAMO	5/04/2021
SCURVE2	C2 Construction Only	KEMWAYO	25/09/2011	KEMWAYO	16/02/2012	KEMWAYO	16/02/2012
SCURVE3	C3 HR Residential Construction	KEMWAYO	28/12/2011	KEMWAYO	16/02/2012	KEMWAYO	16/02/2012
SCURVE4	C4 Construction	KEMWAYO	28/12/2011	KEMWAYO	12/09/2013	KEMWAYO	12/09/2013
SCURVE5	NF Special	KEMWAYO	4/06/2013	KEMWAYO	4/06/2013	KEMWAYO	4/06/2013

Option Description

Select Drill down to 'S' curve details.

TPP - S Curves Maintenance : Details

S Curve SCURVE1 Version# 6 Description C1 Design & Construct

Job Type LUMPSUM GC CM Reporting Unit Reporting Sub Unit Status Active Inactive

Y Label Cost \$

Created KEMWAYO 160212 14:50 Last Updated BOUDAMO 50421 11:23 Last Applied BOUDAMO 50421 11:23

Graph

Percent	Txt	Value
1	%	0.87
2	%	1.74
3	%	2.61
4	%	3.48
5	%	4.50
6	%	5.77
7	%	7.19
8	%	8.61
9	%	10.03
10	%	11.45
11	%	13.55
12	%	15.64
13	%	17.74
14	%	19.83
15	%	21.93
16	%	25.80
17	%	29.67
18	%	33.55
19	%	37.42
20	%	41.29

Right-click to show available options

Note: Click on the column headings to change the sort order

S-Curves for WIH Forecasting

Option **Description**

Copy Copy 'S' curve.

Graph Graph 'S' curve.



Delete Delete 'S' curve.

S-Curves for WIH Forecasting

Adding an S-Curve

There is an Action option on the first screen to add a new S-Curve. When this is selected, the following screen displays.

TPP - S Curves Maintenance : Details ACTIONS OK BACK

S Curve Version# Description

Job Type GC Reporting Unit Reporting Sub Unit Status Active Inactive

Y Label

Created Last Updated Last Applied

Graph XLS < > ...

Percent ▲	Txt	Value
1	%	
2	%	
3	%	
4	%	
5	%	
6	%	
7	%	
8	%	
9	%	
10	%	
11	%	
12	%	
13	%	
14	%	
15	%	
16	%	
17	%	
18	%	
19	%	
20	%	

< > ...

Note: Click on the column headings to change the sort order

Fields on the 'S' curve maintenance details screen.

Field Name	Description
S Curve	Code to represent the 'S' curve.
Version#	'S' curve current version number. This is blank for a new S-Curve.
Description	'S' curve description.
Job Type	Job type. This limits this S-Curve to projects with this Job Type.
GC	Job group code. This limits this S-Curve to projects with this Group Code.

S-Curves for WIH Forecasting

Field Name	Description
Reporting Unit	Job reporting unit. This limits this S-Curve to projects with this Reporting Unit
Reporting Sub Unit	Job reporting sub unit. This limits this S-Curve to projects with this Reporting Sub-Unit
Status	Status of 'S' curve – Active (A), Inactive (I). The S-Curve does not become available until this is 'A'
Y Label	This is the Label you want on the S-Curve Chart. Usually Value \$.
Created	'S' curve created by user id, date, and time. Blank for New
Last Updated	'S' curve last change updated by user id, date, and time. Blank for New
Last Applied	'S' curve last applied by user id, date, and time. Blank for New
Value	Value at specified percentage based on a unit of \$1,000. There are 100 points on the X axis. Generally you need a value for each.

Modifying an S-Curve

Use the Option Select to pick an existing S-Curve, change the values and Apply the changes. This will apply the change to all projects that are using this S-Curve

TPP - S Curves Maintenance : Details

S Curve: SCURVE4 Version#: 10 Description: C4 Construction

Job Type: MANAGE GC CP Reporting Unit: Reporting Sub Unit: Status: Active Inactive

Y Label: Cost (\$)

Created: KEMWAY0 281211 11:36 Last Updated: BOUDAM0 281121 11:56 Last Applied: KEMWAY0 120913 10:35

Percent	Txt	Value
1 %		5.00
2 %		5.00
3 %		5.00
4 %		5.00
5 %		
6 %		
7 %		
8 %		
9 %		
10 %		
11 %		
12 %		10.00

Confirm

Values for S curve have changed.

Do you wish to apply the changes?

Yes No

CONFIRMUPD01

S-Curves for WIH Forecasting

There are a number of other options available in the Actions Button

Field Name

Description

- History. This shows a history of changes to this S-Curve
- Enter Every 5% This will change the entry screen to 5% intervals
- Where Used Sec Shows a list of secured projects where this is used
- Where Used Unsec Shows a list of un-secured projects where this is used

S-Curves for WIH Forecasting

Using S-Curves

Use of 'S' Curves in Secured Works

'S' curves can be associated with projects to automate the WIH using the 'S' curve values entered.

Go to WIH, and select a month. Then select an S-Curve. This will apply the S-Curve to the remaining WIH. The option Override Cashflow should be selected so that the Receipts and Payments will not change.

'S' curve values allocation can be overridden using the check boxes 'Override WIH' and 'Override Cashflow'. This will allow manual entry of WIH and cashflow values by the user. If you re-select the S-Curve it will reapply the S-Curve.

Contract Trading Maintenance ACTIONS OK BACK

As at JUL20 Year 2020

Job RV0001 AVOCA BEACH BOWLING CLUB

S Curve SCURVE1 C1 Design & Construct Override WIH Override Cashflow

WORK IN HAND/CASH FLOW LIQUIDITY

Margin Cash Position < > ...

Period	Project Turnover	Project Costs	%	Project Margin	%	Receipts	Payments	Position	
JUL20	1,869.17		45.06	1,869.17	100.00			379,012.00-	
AUG20	157,153.54	154,723.69	75.18	2,429.85	100.00	132,772.24	58,144.96	304,384.72-	
SEP20	85,287.21	86,944.98	92.11	1,657.77-	100.00	132,772.24	58,144.96	229,757.44-	
OCT20	30,484.82	31,077.36	98.16	592.54-	100.00	132,772.24	58,144.96	155,130.16-	
NOV20	9,236.66	9,416.20	100.00	179.54-	100.00	132,772.24	58,144.96	80,502.88-	
DEC20			100.00		100.00	132,772.24	58,144.95	5,875.59-	
JAN21			100.00		100.00			5,875.59-	
FEB21			100.00		100.00			5,875.59-	
MAR21			100.00		100.00			5,875.59-	
APR21			100.00		100.00			5,875.59-	
MAY21			100.00		100.00			5,875.59-	
JUN21			100.00		100.00			5,875.59-	

< > ...

Unalloc	0.00	0.00		0.00		0.00	0.00	0.00
2020	284,031.40	282,162.23	100.00	1,869.17	100.00	663,861.20	290,724.79	5,875.59-
Total	507,720.00	513,595.59		5,875.59-		507,720.00	513,595.59	5,875.59-
	0.00	0.00		0.00		0.00	0.00	0.00

Auto Allocation Method Clear Values Prorata Totals Accumulate Totals Clear Cash Accumulate Cash

The system can be configured to automatically populate Receipts and Payments based on the Turnover or Costs. This is done in BFM Utilities>Project Types Maintenance>More Values

S-Curves for WIH Forecasting

BFM Project Types Maintenance ACTIONS OK BACK

As at

Hide Apply + < > ...

From Contains From From From From
To To To To

Project Type	Description	PYTT%	< PTT%	Reserve Hold%	Reserve Release%	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT
N	% Cost Completion														

More Values

Delete

Prompt

BFM - Project Type Maintenance ACTIONS OK BACK

Protect WIH Cost \$ Fields Protect Do Not Protect Set From Work Id Level

Protect WIH Cost % Fields Protect Do Not Protect Set From Work Id Level

Protect WIH Margin \$ Fields Protect Do Not Protect Set From Work Id Level

Protect WIH Margin % Fields Protect Do Not Protect Set From Work Id Level

Auto Allocate WIH Values USW Auto Allocate WIH Values

Auto Allocate Cash Values

If yes, Receipts Lag Value (# of Months)

Payments Lag Value (# of Months)

This applies to all projects.

Auto Allocate Cash Value can be ticked, and a Lag no of months entered, usually 1.

So when the S-Curve is applied to the WIH costs, the values calculated for Turnover and Costs can be used to populate the Receipts and payments automatically. If this function is used, the ability to override the Receipts and payments in not available.

Use of 'S' curves in Unsecured Works

'S' curve can be associated with projects to automate the WIH using the 'S' curve values entered.

Select the 'Yearly Allocation' option in Un-Secured Projects Maintenance

S-Curves for WIH Forecasting

Unsecured Project Maintenance ACTIONS OK BACK

As at

Project USW001 99 Walker Street Refit

Tendered/Quoted Expected/Actual Tender Date Expected Award Date
 Expected Start Date Expected Finish Date

Project Turnover Project Margin %
 Forecast Turnover Forecast Margin

Project Type % Cost Completion EOI/PQ Start Date
 Group Code GENERAL CONTRACTING Bnd/Gnt/Retention Type
 Reporting Unit Bnd/Gnt/Ret Amt
 Reporting Sub Unit Bnd/Gnt/Ret Pct %
 Auto Allocate WIH Values

Assign Resources
 Yearly Allocation
 Text Maintenance
 Enter UDFs
 Documents

Then apply an S-Curve.

Contract Trading Maintenance ACTIONS OK BACK

As at

Project USW001 99 Walker Street Refit
 Year 2020 S Curve C1 Design & Construct Override WIH Override Cashflow

PROJECT & FORECAST

Period	Project Turnover	Project Costs	%	Project Margin	%	Forecast Turnover	Forecast Costs	Forecast Margi
JUL20								
AUG20	82,580.00	66,064.00	4.12	16,516.00	4.12	63,173.70	50,538.96	12,634.74
SEP20	449,040.00	359,232.00	26.58	89,808.00	26.58	343,515.60	274,812.48	68,703.12
OCT20	936,760.00	749,408.00	73.41	187,352.00	73.41	716,621.40	573,297.12	143,324.28
NOV20	449,040.00	359,232.00	95.87	89,808.00	95.87	343,515.60	274,812.48	68,703.12
DEC20	82,580.00	66,064.00	100.00	16,516.00	100.00	63,173.70	50,538.96	12,634.74
JAN21								
FEB21								

'S' curve values allocation can be overridden using the check box 'Override WIH'. This will allow manual entry of WIH values by the user.