Supply Chain Management



- **Supply Chain Management** is the handling of the entire production flow of a good or service, starting from the raw components all the way to delivering the final product to the consumer.
- Supply chain management affects product and service quality, delivery, costs, customer experience and ultimately, profitability.
- Effective supply chain management systems minimize cost, waste and time in the production cycle.
- Top 5 Components of Supply Chain Management
 - 1. Plan
 - 2. Source
 - 3. Make
 - 4. Delivery
 - 5. Return



The Big Semiconductor Supply Chain Problem



FIGURE 1

Global Integrated Circuit (IC) unit shipments across various downturns, quarterly, 1990 to Q2, 2021 (log scale)





Source: Deloitte analysis based on secondary research and data gathered from publicly available articles and reports. Deloitte Insights | deloitte.com/insights The absence of a US\$1 chip can prevent the sale of a device, appliance, or vehicle worth much more. The world experienced a severe and long-lasting semiconductor shortage across multiple chip products from 2020 through fall of 2021, and Deloitte and McKinsey predict the chip shortage will continue through 2022, with lead times for some components pushing out to 2023, meaning it will have lasted over 24 months.

You can't prevent a shortage, but you can lessen its impact

The Building Blocks of Semiconductor Supply Chain



To Cater the future predicted and unpredicted demand, product inventory has become more critical than ever.

Logistics plays a vital role not only in delivering the end product but supplying different materials to the equipment.

Semiconductor manufacturing time has a major impact on customer commitments and can shake up the end to end Supply Chain New product design feeds into the supply chain and impacts the subsequent process steps.

Semiconductor Fabrication and Assembly is dependent on vailability of raw materials like chemicals, semiconducting materials (silicon, germanium, gallium arsenide, etc.), substrate, and many other different types of resources. Shortage of raw material has direct impact on product supply.

The Future Blocksof Semiconductor Supply Chain



Data: Understanding the market demand is very important. Semiconductor supply chain teams have resources that can allow them to gauge the market swing. External disruptive factors like pandemic or war should be taken into consideration **Adoption:** Just In Time (JIT) is a widely used methodology in manufacturing. However, the semiconductor supply chain needs to move beyond the traditional concepts. This demands changes in the supply chain working with the help of a detailed understanding of both technical and non-technical (like weather, outbreak, etc.) information that can affect the semiconductor supply chain.

Planning: Semiconductor supply chain planning should utilize more data points than simply relying on forecast or market intelligence.

Priority: In the end, decisions taken by the semiconductor supply chain teams are all about how to balance and prioritize product manufacturing. Prioritizing products is not an easy task, and that is why semiconductor supply chain teams need to find new ways to balance the inventory of different types of products.

Risk: Eventually, semiconductor supply chain management is a risky business. If the market demand is lower than the expected supply then it can lead to losses. On another side, if the product supply is not meeting the market demand, then the opportunity to gain on the high demand is lost. New strategies and concepts to be adoped that are more robust than the older production and supply systems.

The RPRTRL Metric in Semiconductor Supply Chain

A modern and extensive metric can provide detailed insights into the semiconductor supply chain's end-to-end efficiency. It asks several questions for each order: Were demand forecasts

- 1. Accurate enough to enable businesses to produce the right product (RP)? is it true
- 2. That execution went according to plan, allowing all tasks to be completed at Right Time (RT)?
- 3. Was inventory staged at the Right Locations (RL) in the semiconductor supply chain?

This metric, abbreviated as RPRTRL, is calculated using hard data to provide an objective evaluation of supply-chain efficiency. For the first time, companies will recognize all root causes behind performance problems, create an improvement plan, and quantify their progress using the insights given by the RPRTRL measurement. The right product, right time, right location (RPRTRL) calculation uses scores from three areas.



McKinsey&Company

DATA FLOW ARCHITECTURE





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JDA Demand

- 1. SalesMaster : Defines sales, channel, geography or marketing entities used in forecast and fulfillment processes.
- 2. SalesOrderMaster : Defines the list of sales orders and header information, including the sales order id, customer, priority, demand type, etc. Sales Order is a document from a customer for a particular end item or a number of end items
- 3. SalesOrderLine : Defines the list of all the line items that have been requested in a sales order. This contains the item, quantity, and due date information for sales lines.
- 4. SalesOrderSubLine : Defines the list of all the configurable items that have been requested for a particular sales order line. This is used when placing orders for (CTO) Configure to Order Products.
- 5. SalesProductCalendar : Associate the sales name with a sales calendar to reflect time varying selling prices
- 6. Forecast Group : Master table for the forecasts
- 7. ForecastDetail : Priority of the forecast, Quantity of the forecast, Due Dates, Tolerance Dates
- 8. SOLineSchedule : Data to be input into this only if a Sales Line is expected to be shipped in multiple shipments, each having a different shipment date.



JDA Planning

This slide details the planning related files required for TMAPI. These are data specifications that may be required to govern planning behavior of SCP or that of specific solvers. TMAPI is a programming interface for accessing and manipulating data held in a topic map used by JDA.

- 1. PlanParameters : Defines the different planning parameters.
- 2. ObjectiveParameters : This table holds the objective levels for the IpOPt and defines the hierarchy of objective levels required for planning and their attributes. This table is used in conjunction with the LPLayer table. This table is relevant only for the IpOPt solver.
- 3. LpLayers :Define the different layers and the mapping of demand ranks to layers. This table usedin conjunction with the ObjectiveParameters table. This table is relevant only for thelpOPt solver.



Output tables

This section details the different export tables supported by SCP. These are exported directly into the Manufacturing ABPP database MasterProductionPlan

- 1. MaterialPeggingInfo
- 2. ProcurementPlan
- 3. DistributionPlan
- 4. ShipmentPlan
- 5. CapacityPeggingInfo
- 6. ForecastFulfillmentPlan
- 7. ManufacturingPlan
- 8. OperationsPlan
- 9. InventoryPlan
- 10. Resource Plan

JDA Data Model Demand Forecast and Planning

Input Data tables

- 1. EnterpriseMaster
- 2. SupplyChainMaster
- 3. OrganizationMaster
- 4. PlanMaster
- 5. CalendarMaster
- 6. ItemMaster
- 7. ProductMaster
- 8. BOM and Routing
- 9. Vendor and SupplierMaster
- 10. Inventory
- 11. Requisition, Purchase Order

(The entire list is documented in SCP_TMAPI_Record_Manual_6.3.2)

Inspired by

Supply Chain Analytics

SOW Item	Description
1	Monthly Supply Review with Sales and BU for Partner Customers Escalations
2	Weekly Master Planner Cross-Functional Review
3	Foundry Commit vs Ship Tracking
4	Fabout Waterfall Dashboard
5	Kit Planning Dashboard
6	KPI Analysis -1
7	KPI Analysis -2
8	Backlog RSD, CSD Pushouts/ Pull Ins

Inspired by Innovation. Competing on Analytics

SOW 1:

On the right hand side picture shows two matrix visuals which has monthly supply review data for the escalated customers and all customers.

The above matrix of the picture has the escalated customers data, which shows the quarterly fill rates. All the data's are coded in different colors as per their quarterly delta change. And all the (– ve) values are enclosed in a bracket.

The below matrix of the picture shows the same data for all the customers i.e., escalated and non-escalated.

scalated Custome									BU
BU	Tech Node	Financial Group End Custor	mer	2023-Q4	2024-Q1	2024-Q2	2024-Q3	Total	All
3	E Mitter	-	Current Metrics						
		and the second se	Minimum Ask	40,000	50,000	50,000	50,000	47,500	Financial Group
			Demand (URCF)	36,720	46,640	12,408	6,123	101,891	All
			Prior Quarter Delinquency	134,412	0	0	0	134,412	
			Customer Backlog (RSD)+Shipments	36,720	46,640	12,407	6,120	101,887	Escalated Customer
			Supply (RCF)	26,382	39,977	50,000	50,000	166,359	
			Committed Backlog (CSD) + Shipments	26,382	30,900	52,650	51,840	161,772	All
			Quarterty Fill Rates	-					
			Minimum Ask Fill Rate (Supply to Min Ask)	66%	80%	100%	100%	350%	Fiscal Quarter
			RCF to URCF Fill Rate	1596	8696	403%	81796	70%	All
			Cum RCF vs URCF (w/ Delinquency) Qty	(144,750)	(151,413)	(113,821)	(69,944)	(69,944)	
			RCF to RSD (w/ Delinquency) Fill Rate	1596	86%	403%	81796	70%	
			Cum RCF vs RSD (w/ Delinquency) Qty	(144,750)	(151,413)	(113,820)	(69,940)	BU 3 Total All 0 47,500 Financial Group 1 134,412 Financial Group 0 134,412 Litancial Group 0 166,359 All 0 166,359 All 0 161,772 Fiscal Quarter 4 70% Fiscal Quarter 4 97% Total 0 350,000 1 4 1.547,512 79% 0 350,000 1 4 1.840,906 1.03,847 5 526% 79% 3 10.891 0 10 132,412 0 10 134,412 0 10 166,359 0 10 134,412 0 10 161,772 70% 10 161,772 70% 10 70% 10 10 161,772 70% 10	
			CSD to RCF Fill Rate	100%	77%	105%	10496	97%	BU All Financial Group All Escalated Customer All Fiscal Quarter All
			Current Metrics						
		-	Minimum Ask	350,000	350,000	350,000	350,000	350,000	
			Demand (URCF)	262,306	315,908	406,074	563,224	1,547,512	
			Prior Quarter Delinquency	792,729	0	0	0	792,729	
			Customer Backlog (RSD)+Shipments	262,305	315,909	406,072	563,223	1,547,509	
			Supply (RCF)	331,705	473,000	498,000	538,201	1,840,906	
			Committed Backlog (CSD) + Shipments	295,098	249,159	245,601	247,989	1,037,847	
			Quarterly Fill Rates	-					aU A Financial Group Al Escalated Customer Al fiscal Quarter Al
			Minimum Ask Fill Rate (Supply to Min Ask)	9596	135%	142%	154%	526%	
			RCF to URCF Fill Rate	3196	150%	123%	9696	79%	
			Cum RCF vs URCF (w/ Delinguency) Qty	(723,330)	(566,238)	(474,312)	(499,335)	(499,335)	
			RCF to RSD (w/ Delinquency) Fill Rate	3196	150%	123%	96%	79%	
All Customers									
BU	Tech Node	Financial Group		2023-Q4	2024-Q1	2024-Q2	2024-Q3	Total	8
	8		Current Metrics				1		
			Minimum Ask	40,000	50,000	50,000	50,000	47,500	
			Demand (URCF)	36,720	46,640	12,408	6,123	101,891	
			Prior Quarter Delinguency	134,412	0	0	0	134,412	
			Customer Backlog (RSD)+Shipments	36,720	46,640	12,407	6,120	101,887	
			Supply (RCF)	26,382	39,977	50,000	50,000	166,359	
			Committed Backlog (CSD)+ Shipments	26,382	30,900	52,650	51,840	161,772	
			Quarterly Fill Rates						
			RCF to URCF Fill Rate	1596	8696	403%	81796	70%	
			Cum RCF vs URCF (w/ Delinquency) Qty	(144,750)	(151,413)	(113,821)	(69.944)	(69,944)	
			RCF to RSD (w/ Delinguency) Fill Rate	1596	86%	40396	81796	70%	
					the second s	12505000	CONTRACTOR OF	and the second se	×



SOW 2:

On the right hand side picture shows a matrix visuals which has weekly master planner review data.

The matrix shows all the cumulative delta changes in the different quarter .The values are coded in different colors by conditionally. And all the (– ve) values are enclosed in a bracket.

Its showing the data for the business functionality that how much are in the opportunity and how much are in risk.

There are two buttons like unit and dollar that is like switching the matrix from unit to dollar matrix.

One special features is added i.e. **attribute parameter** by that you can limit the dimension of the matrix.

V	CCRIY M	aster I	Tannie	FCIUS	s-runc	cional
Fiscal Year	20	23	-	20	24	
	2023-Q3	2023-Q4	2024-Q1	2024-Q2	2024-Q3	2024-Q4
Current Metrics			_			
Demand (URCE)	18 94 029	22 10 224	17.01.682	11 24 443	1574886	10.62.580
Supply (RCF)	18.67.971	19.10.957	18.60.075	15.95.942	18.50.399	17.20.225
Committed Backlog (CSD) + Shipments	18 52 224	18 01 219	18 99 881	14 10 846	11 32 813	8.86.936
Demand Risk Assessment	10,06,664	10,01)210	10,00,001	14,10,040	1002010	0,00,000
RSD to URCE Fill Rate (w/ Delinguency)	116%	166%	96%	83%	64%	5%
RSD to URCE Delta (w/ Delinquency)	2 99 858	14 57 735	(72.981)	(1 93 744)	(5.72.288)	(10.03.270)
Cum RSD to URCE Delta (w/ Delinquency)	2 99 858	17 57 593	16.84.612	14 90 868	9 18 580	(84 690)
Demand Opportunity Assessment	2,55,656	11,01,000	10,04,012	11,20,000	5,10,500	(0-100-0)
RSD to URCE Fill Rate (w/o Delinquency)	100%	9996	96%	83%	64%	6%
RSD to URCE Delta (w/o Delinguency)	(1 347)	(11 365)	(72.081)	(1 93 744)	(5 72 288)	(10.03.270)
Cum RSD to URCE Delta (w/o Delinguency)	(1347)	(12 712)	(85,603)	(2 79 437)	(8.51.725)	(18 54 005)
Supply R&O Assessment	(1)-741	(IEI(IE)	100,000/	(619,697)	(0,011120)	Introdeed see)
CSD to RCF Fill Rate	99%	9.4%	102%	88%	61%	52%
CSD to RCF Delta	(15 747)	(1 ()9 738)	39.806	(1.85.096)	(7 17 586)	(8 33 289)
Cum CSD to RCF Delta	(15,747)	(1.25.485)	(85.679)	(2 70,775)	(9.88.361)	(18.21.650)
CSP to RCF Assessment	1000 C					
CSP to RCF Fill Rate	98%	106%	83%	121%	101%	109%
CSP to RCF Delta	(32,796)	1,20,056	(3.19.447)	3.35.359	18,652	1.54.881
Cum CSP to RCF Delta	(32,796)	87,270	(2.32.177)	1,03,182	1,21,834	2,76,715
RCF to RSD Assessment	A CONTRACTOR					
RCF to RSD Fill Rate	99%	52%	114%	171%	185%	2900%
RCF to RSD Delta	(24,711)	(17,57,002)	2,31,374	6,65,243	8,47,801	16,60,915
Cum RCF to RSD Delta	(24,711)	(17,81,713)	(15,50,339)	(8,85,096)	(37,295)	16,23,620
Customer Support Assessment						
CSD to RSD Fill Rate	98%	49%	117%	152%	113%	1495%
CSD to RSD Delta	(40;458)	(18.65,298)	2,71,180	4,80,147	1,30,215	8,27,626
Cum CSD to RSD Delta	(40,458)	(19,05,756)	(16,34,576)	(11.54,429)	(10,24,214)	(1.96,588)
Projected Delinquency						
RCF to URCF (w/ Delinquent RSD Backlog) Fill Rate	99%	52%	109%	142%	117%	162%
RCF to URCF (w/ Delinquent RSD Backlog) Delta	(26,058)	(17,68,367)	1,58,393	4,71,499	2,75,513	6,57,645
Cum RCF to URCF (w/ Delinquent Backlog) Delta	(26,058)	(17,94,425)	(16,36,032)	(11,64,533)	(8,89,020)	(2,31,375)
Current Metrics						
Demand (URCF)	1,51,12,293	1,72,56,840	1,41,69,294	1,60,95,208	1,58,42,896	1,56,17,857
Supply (RCF)	1,40,36,081	1,82,38,115	1,55,19,233	1,59,77,799	1,58,30,247	1,56,08,877
Committed Backlog (CSD) + Shipments	1,40,35,655	1,70,18,476	1,36,98,474	1,68,06,713	1,27,21,708	1,15,24,376
Demand Risk Assessment						la manana ang ang ang ang ang ang ang ang an

Report: Foundry Commit vs Ship Tracking



SOW 3:

On the right hand side picture shows a matrix visuals which shows the tracking of commit and shipping of products.

The matrix shows the tracking data like when you have committed to ship the product. It also shows the quantity of product, how much is early and how much is late in monthly wise.

There are two buttons like Fiscal and Calendar quarter that is like switching the matrix from the usual calendar to the business calendar.

There are few more buttons to show the detail report of the matrix visual and committed graphs .

irst Com	mit vs Ship Date					
	Year			2022		
Fab Code		August	September	October	November	December
	Shipped QTY	15,033	18,735	12,701	22,948	12,879
	Late QTY w/ First Commit	1,535	1,098	1,346	4,902	907
	% Late	10%	6%	11%	21%	7%
	Late QTY w/ Last Commit	1,396	1,001	1,141	5,284	416
	% Late	9%	5%	9%	23%	3%
	Shipped QTY	4,069	15,439	13,216	7,650	11,674
	Late QTY w/ First Commit	621	1,753	2,248	1,394	921
	% Late	15%	11%	17%	18%	8%
rst Comm ab Code S L 9 2 4 9 9 5 5 1 9 9 1 5 5 1 9 9 1 4 9 9 1 5 5 1 9 9 1 5 5 1 9 9 1 5 5 1 9 9 1 5 5 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 9 1 9 9 9 1 9 9 9 1 9 9 9 1 9 9 1 9 9 9 1 9 9 9 1 9 9 1 9 9 9 1 9 9 9 1 9 9 9 1 9 9 9 9 9 1 9 9 9 9 1 9 9 9 9 9 9 9 9 9 1 9	Late QTY w/ Last Commit	897	597	823	1,473	3,313
	% Late	22%	4%	6%	19%	28%
	Shipped QTY	439	409	1,336	1,236	21,882
	Late QTY w/ First Commit	387	100	41	149	25
rst Commit v ab Code Shipp Late (% Lat Late (% Lat Shipp Late (% Lat Late (% Lat Late (% Lat Late (% Lat Late (% Lat Late (% Lat Shipp Late (% Lat Shipp Late (% Lat Shipp Late (% Lat Shipp Late (% Lat Shipp Late (% Lat Shipp Late (% Lat Late (% Lat Late (% Lat Late (% Lat) Late (% Lat) Lat) Lat(% Lat) Lat) Lat(Lat) Lat) Lat) Lat(Lat) Lat) Lat) Lat) Lat) Lat) Lat) Lat)	% Late	88%	24%	3%	12%	0%
	Late QTY w/ Last Commit	0	225	16	50	0
	% Late	0%	55%	1%	4%	0%
	Shipped QTY	4,835	3,180	2,918	2,656	2,329
	Late QTY w/ First Commit	290	393	470	164	810
	% Late	6%	12%	16%	6%	35%
	Late QTY w/ Last Commit	362	397	169	96	438
	% Late	7%	12%	6%	4%	19%
	Shipped QTY	112	144	(19)	0	13
9 5 4 9 9 9 1 5 1 9 9 5 5 1 9 9 1 9 9 9 9 9 9	Late QTY w/ First Commit	25	53	(17)	0	13
	% Late	22%	37%	89%	0%	100%

Report: Foundry Commit vs Ship Tracking



SOW 4:

On the right hand side picture shows a matrix visuals which shows the Forecasted value of the products.

The matrix shows the units of the products to be deliver in a particular day wise. It's like the company is predicting that this amount of units we will be getting from the vendor.

The colors are coded conditionally as per their units delivered. and there is a tooltips that shows the changes if you will hover on it.

There are few more buttons to show the graph of the matrix visual and also unit dollar matrix.





Filters

\$ >>

SOW 5:

On the right hand side picture shows a matrix visuals which shows the kit Planning data .

The matrix shows the how much of unit is coming in a bunch and how much are singular unit.

The colors are coded conditionally according to the values. Its shows all the cumulative delta changes in month wise.

There is a buttons to show the detailed report of the matrix.

			KIT	PLANN	Drill or	Rows	V	\wedge			,		
-		Fiscal Quarter	-	-	2023-04			2024-0	₩ ψψ)1	Total	1	RU	4
Part Number	Kit Part Number			NOV-22	DEC-22	JAN-23	FEB-2	MAR-2	23 APR-23			All	×
- 0.18	1000	URCF (Demand)						_					
		RCF (Supply)				0 12,00	0			12,000		Financial Group	- NO
		Cum Delta RCF vs URCF		_		0 12,00	0 12,00	0 12,0	00 12,000	12,000		All	Ŷ
		RSD Backlog + Delinquent Backlog		15,000						15,000		Part Number	1
		CSD Backlog		3,000		12,00	0			15,000			
		Delta CSD vs RSD		(12,000)		12,00	0			0	i i	BU All All Financial Group All Part Number All KR Part Number All Fiscal Quarter All End Customer End Customer All Detailed Report	- i -
		Cum Delta CSD vs RSD		(12,000)	(12,000	1	0	0	0 0	0			
Part Number		CSD to RSD Fill Rate		-								Krt Part Number	
		RSD vs URCF		15,000						15,000		All	×.
		Cum Delta RCF vs (URCF + Rollovers	Backlog)	(15,000)	(15,000) (3,00)) (3.00) (3,00	(3,000)	(3.000)		15	
		URCF (Demand)										Fiscal Quarter	342
		RCF (Supply)						0	0 -5	-5		All	÷.
		Cum Delta RCF vs URCF					_	0	0 (5)	(5)		and and a second second	
		RSD Backlog + Delinquent Backlog										End Customer	
		ren n	-									All	
	Fi	scal Quarter		2023-Q4		2	024-Q1		Total			_	_
Part Number			NOV-22	DEC-22	JAN-23	FEB-23	MAR-23	APR-23					
10.00	URCF (Demand)		768,034	321,594	435,072	311,479	279,919	379,608	2,495,706				
	RCF (Supply)		405,710	669,780	821,610	425,194	399,016	649,468	3,370,778				
	Cum Delta RCF vs URCF		(362,324)	(14.138)	372,400	486,115	605,212	875,072	875,072			Detailed Rep	vrt
	RSD Backlog + Delinquent	Backlog	516,079	241,720	147,891	55.040	58,240	80,020	1,098,990				
	CSD Backlog	on and the second s	190,240	84,800	201,270	276,040	203,240	135,600	1,091,190				
	Delta CSD vs RSD		(325,839)	(156,920)	53,379	221,000	145,000	55,580	(7,800)				
	Cum Delta CSD vs RSD		(325,839)	(482,759)	(429,380)	(208,380)	(63,380)	(7,800)	(7,800)				
	CSD to RSD Fill Rate		209 %	61 %	186 %	502 %	349 %	169 %	182 %				
	RSD vs URCF		(251,955)	(79,874)	(287,181)	(256,439)	(221,679)	(299,5	(1,396,7				
	Cum Delta RCF vs (URCF +	RolloverBacklog)	(878,403)	(771,937)	(533,290)	(474,615)	(413,758)	(223,9	(223,918)				

,∕⊃ Search	
Filters on this visual	
Bundled/Unbundl	
is (All)	R
Kit Part Number	A
starts with 'KT'	N.
Kit Component Fl	
is (All)	N.
CSD Backlog	
is (All)	R
CSD to RSD Fill Rate	
is (All)	R
Fiscal Quarter	
is (All)	R
RCF Qty E2	
is (All)	R
RSD Backlog + Delinqu	
is (All)	R



SOW 6:

On the right hand side picture shows a matrix visuals which shows the forecasted and delivered of units.

The matrix shows the how much of unit is delivered and how much units is forecasted.

The colors are coded conditionally according to the values i.e., the green parts are the actual parts that are delivered and the blue parts are forecasted.

There is a buttons to show the dollar value of the matrix. And a special feature is added i.e., **attribute parameter** to limit the dimension of the matrix visual.

					Fiscal Quarter	202	3-Q4															Total	Attribute Paramet
					Fiscal Month	Nov	/embe	er		De	cerr	nber					Janu	Jary			Total		All
b Code	BU	Financial Group	Part Number	Technology Group	Snapshot Date	5	12	19 2	6 Tot	a 3	1	10 1	7 2	24	31	Total	7	21	28 To	tal			
	1	(-		Oct 31	267	37	150 7	75 1,2	29 1,50	00	550 2	200		1,200	3,450		50	25	75	4,754	4,754	Fab Code
		8			Nov 07	267	612	119 42	25 1,4	23 95	50 1	1,950 3	50		350	3,600					5,023	5,023	Multiple selections
					Nov 14	267	612 5	575 40	00 1,8	54 62	25	75 6	575 1	,425	350	3,150					5,004	5,004	
	43				Nov 21	267	612 3	575 4	59 1,9	13 49	91	300 9	50	825	350	2,916					4,829	4,829	Attribute Parameter All Fab Code Multiple selections BU All Financial Group Part Number All Technology Group All Snapshot Quarter 2023-Q4 Fiscal Quarter 2023-Q4
					Nov 28	267	612	575 4	59 1,9	13 53	34	300 9	50	825	350	2,959					4,872	4,872	
					Dec 05	267	612 5	575 4	59 1,9	13 53	34 1	1,520				2,054		25		25	3,992	3,992	
					Dec 12	267	612 5	575 4	59 1,9	13 53	34 1	1,520 1	23		325	2,502					4,415	4,415	Financial Group
					Dec 19	267	612 5	575 4	59 1,9	13 53	34 1	1,520			350	2,404					4,317	4,317	
					Dec 26	267	612 5	575 4	59 1,9	13 53	34 1	1,520			350	2,404					4,317	4,317	Part Number
					Jan 02	267	612 5	575 4	59 1,9	13 53	34 1	1,520				2,054	375			375	4,342	4,342	
																							All Snapshot Quarter 2023-Q4
																							Fiscal Quarter 2023-Q4

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SOW 7:

On the right hand side picture shows a matrix visuals which shows the first commit and the last commit of the products delivery.

The matrix shows the how much of units they had committed to deliver very firstly. And how much is given till now.

The colors are coded conditionally according to the values i.e., the green parts are the current committed units they have delivered and the yellow parts are they had committed very firstly.

There is a buttons to show the dollar value of the matrix. And a special feature is added i.e., **attribute parameter** to limit the dimension of the matrix visual.

	Fiscal Quarter	202	3-Q4				
Fab Code		Nov	ember	Dec	cember	Jan	uary
	Projected Units at BOQ		6,119		10,125		937
	Current Projected Units	▼	5.570	▼	8.890		2.800
1	Projected Units at BOQ		13				
	Current Projected Units		13				
	Projected Units at BOQ		699		4,123		25
	Current Projected Units	▲	1,477	▲	6,235	V	10
	Projected Units at BOQ		250		1,475		150
	Current Projected Units	▲	400	▲	2,000		225
1	Projected Units at BOQ		50				
	Current Projected Units	-	50				
	Projected Units at BOQ					3	20,016
	Current Projected Units					Δ	40,032
	Projected Units at BOQ		2,221		627		1,215
	Current Projected Units		12,040		19,166		5,747
	Projected Units at BOQ		2,036		2,036		
	Current Projected Units	V		-	2,036		
10	Projected Units at BOQ		50		50		
	Current Projected Units		826		775		
1	8 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1						



Report: Backlog RSD, CSD Pushouts/ Pull Ins



SOW 8:

On the right hand side picture shows a matrix visuals which shows the RSD and CSD pull-ins or push-outs.

The matrix shows the tracking of RSD/CSD changes.

If the RSD/CSD changes between a certain days that should be a RSD/CSD pushouts

The colors are coded conditionally according to the values i.e., the green parts are the pull-ins and red for the pushouts.

There is a buttons to switch between RSD and CSD matrix.

You can lookback to the days show that you can see the changes.

	Tracking	g CSD and RSD P	ushouts	and Pull-	Ing		E7	CSD RSD	Filters	© >
FG Part Num BU	Financial Group End Customer OrderID	RSD(LATEST) RSD(LATEST)	SSD RSD(PRIOR)	RSD(PRIOR)S	SD RSD(LATES	RSD(PRIO.	RSD PUSK	BU	,	
A 100		2022-12-28 2022-12-05	2022-12-28	2022-12-05	2023-Q4	2023-Q4	RSD PULL	Al S		
		2022-12-28 2022-12-05	2022-12-28	2022-12-05	2023-04	2023-04	RSD PULL	12 	Eilters on this visual	
		2022-12-28 2022-12-05	2022-12-28	2022-12-05	2023-Q4	2023-Q4	RSD PULL	Financial Group	Filters off this visual	
		2022-12-28 2022-12-05	2022-12-28	2022-12-05	2023-04	2023-Q4	RSD PULL	All	RI	
		2023-02-24 2022-12-05	2023-02-24	2022-12-05	2024-Q1	2024-Q1	RSD PULL	End Customer	50 in (All)	
		2023-02-24 2022-12-05	2023-02-24	2022-12-05	2024-Q1	2024-Q1	RSD PULL	Al	IS (All)	A,
		2023-02-24 2022-12-05	2023-02-24	2022-12-05	2024-Q1	2024-Q1	RSD PULL			
		2023-02-24 2022-12-05	2023-02-24	2022-12-05	2024-Q1	2024-Q1	RSD PULL	FG Part Number	End Customer	
		2023-02-24 2022-12-05	2023-02-24	2022-12-05	2024-Q1	2024-Q1	RSD PULL	AI 8	is (All)	N.
		2023-02-24 2022-12-05	2023-02-24	2022-12-05	2024-Q1	2024-Q1	RSD PULL	OrderD		
		2022-10-11 2022-12-05	2022-10-11	2022-12-05	2023-Q3	2023-Q3	RSD PULL	ALL N	FG Part Number	
		2022-10-11 2022-12-05	2022-10-11	2022-12-05	2023-Q3	2023-Q3	RSD PULL		is (All)	10
		2023-04-05 2022-12-05	2023-04-05	2022-12-05	2024-Q1	2024-Q1	RSD PULL	Look Back		~
		2023-03-27 2022-12-05	2023-03-27	2022-12-05	2024-Q1	2024-Q1	RSD PULL	1 14	Einancial Group	
		2023-05-29 2022-12-05	2023-05-29	2022-12-05	2024-Q2	2024-Q2	RSD PULL	-0	Tinancial Group	-12
		2022-07-18 2022-12-05	2022-07-18	2022-12-05	2023-Q2	2023-Q2	RSD PULL	1957	IS (AII)	A
		2022-01-24 2022-12-05	2022-01-24	2022-12-05	2022-Q4	2022-Q4	RSD PULL		erner ausze	
		2022-11-24 2022-11-25	2022-11-24	2022-11-25	2023-Q4	2023-Q4	RSD PULL		OrderID	
		2022-11-24 2022-11-25	2022- <mark>11-24</mark>	2022-11-25	2023-Q4	2023-Q4	RSD PULL		is (All)	N
		2022-11-24 2022-11-25	2022-11-24	2022-11-25	2023-Q4	2023-Q4	RSD PULL	14 DAYS EXCEPTION REPORT		
		2022-11-24 2022-11-25	2022-11 <mark>-24</mark>	2022-11-25	2023-Q4	2023-Q4	RSD PULL		QUANTITY	
		2022-12-05 2022-12-05	2022-12-05	2022-12-05	2023-Q4	2023-Q4	RSD PULL	QUARTER EXCEPTION REPORT	is (All)	20
		2022-12-05 2022-12-05	2022-12-05	2022-12-05	2023-Q4	2023-Q4	RSD PULL		is (ruj	5
		2022-12-05 2022-12-05	2022-12-05	2022-12-05	2023-Q4	2023-Q4	RSD PULL			and the
		2022-12-05 2022-12-05	2022-12-05	2022-12-05	2023-Q4	2023-Q4	RSD PULL		KSD PUSHOUTS OK P.	1
		2022-11-24 2022-11-25	2022-11 <mark>-24</mark>	2022-11-25	2023-Q4	2023-Q4	RSD PULL		is (All)	N.
		2022 01 04 2022 12 05	2022 01 04	2022 12:05	2022 04	2022 04	DCD DUU			



THANK YOU

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