

Delivery schedule quality system



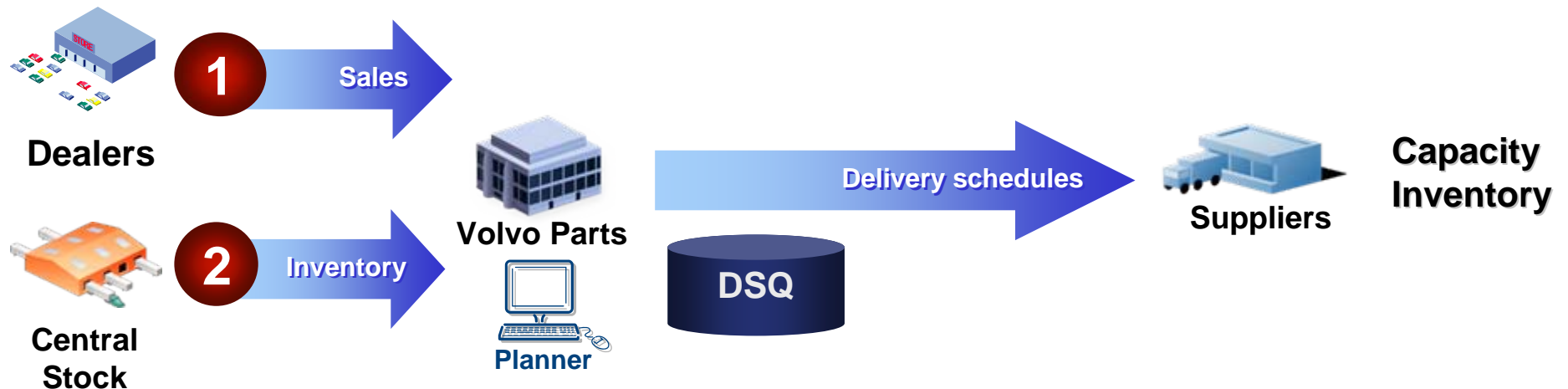
Volvo Parts

Ulf Höglund

Business Value

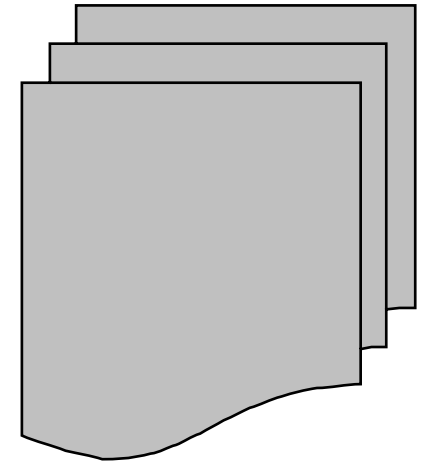
DSQ system

- Secure that the **forecasted “delivery schedules”** that are send to the suppliers can **be measured** by all Volvo Group Material controllers.
- The definition of Delivery Schedule Quality DSQ-measurement is based on **“forecast value”**.
- Measuring the forecast quality facilitates the detection of **systematic deviations in forecasting accuracy and faster corrections can then be taken.**



Reports

- **Standard report**
 - ✓ For x-4 weeks, x-2 months, x-3 months, x-6 months
 - ✓ Per Supplier
 - ✓ Per Part
- **Trend report**
 - ✓ For x-4 weeks, x-2 months, x-3 months, x-6 months
 - ✓ Per Supplier
 - ✓ Per Part
- **Waterfall analysis**
 - ✓ Delivery schedules between different time periods



Short and long term analysis horizons

Comparison based on Week

Comparison based on Month

	Sept				Oct				Nov				Dec						
Shipment week ▶	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Delivery Schedule week ▼																			
200648															139	357	445	262	
200647															371	454	32	192	285
200646														371	157	1	124	90	151
200645													444	431	379	8	379	5	362
200644												59	490	345	156	69	398	87	397
200643											174	282	422	446	196	437	457	58	246
200642										136	374	70	117	431	331	202	434	21	360
200641									464	368	264	351	371	420	284	484	118	53	463
200640								376	292	204	116	263	72	230	100	249	306	70	471
200639							211	460	405	152	378	487	170	153	152	151	263	84	102
200638					279	73	116	418	192	229	404	476	229	223	109	268	6	427	
200637				140	381	230	117	175	351	464	184	146	264	175	415	246	90	340	
200636			74	163	358	429	361	297	355	344	232	384	171	148	115	314	352	372	
200635			70	208	480	283	247	312	227	242	396	163	325	163	461	116	441	144	465
200634		289	261	449	254	178	335	227	191	311	216	394	287	168	162	415	348	345	332
200633	173	377	135	288	337	339	54	496	273	423	96	435	335	103	219	200	264	112	322

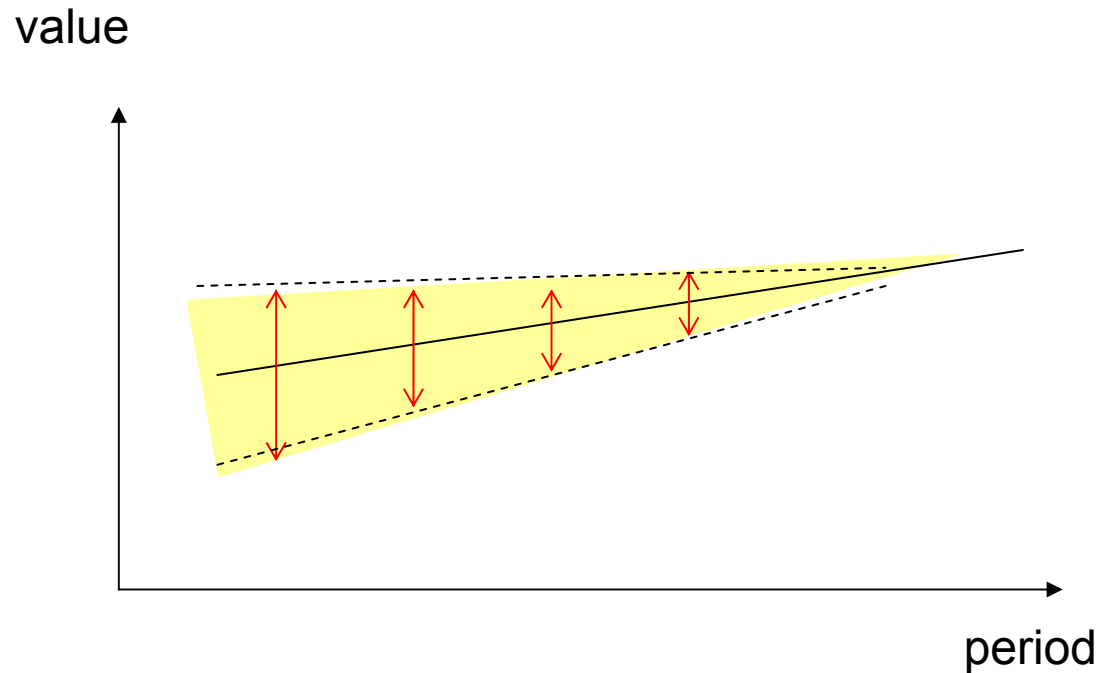
5 weeks

3 month

* The asteric indicates that the delivery schedule week should be 200744, not 200743. It's wrong in the picture.

Basis for Trend reports

The DSQ trend reports shows the “value deviation trend” between different delivery schedules over the time.



Basis for DSQ trend report

Trend for standard report x - 4 weeks

▶ looking backward at previous delivery schedules and weeks

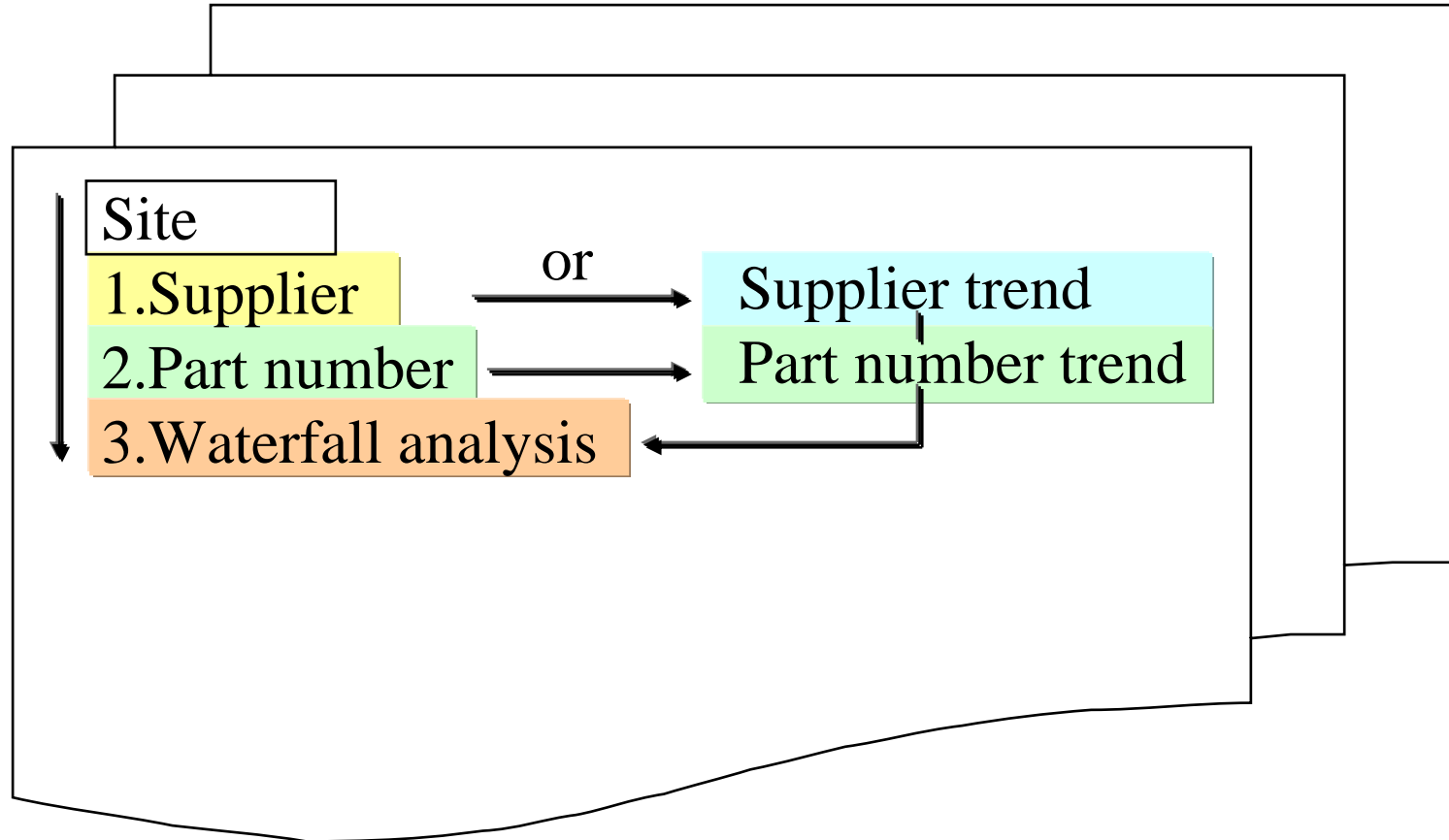
Despatch week ▶	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
Delivery Schedule week ▼																													
200648													216	215	223	382	382	382	382	382	382	382	382	382	382	382	382	382	382
200647												218	417	467	309	297	297	297	297	297	297	297	297	297	297	297	297	297	297
200646											395	376	277	317	317	483	483	483	483	483	483	483	483	483	483	483	483	483	483
200645											291	299	275	433	360	275	219	219	219	219	219	219	219	219	219	219	219	219	219
200644											269	473	329	331	404	466	243	388	388	388	388	388	388	388	388	388	388	388	388
200643											280	429	406	470	458	328	313	307	307	307	307	307	307	307	307	307	307	307	307
200642											319	428	475	417	424	402	369	376	201	448	448	448	448	448	448	448	448	448	448
200641											238	443	241	469	422	292	397	414	456	306	259	259	259	259	259	259	259	259	259
200640											334	419	435	226	290	352	347	340	497	345	203	357	357	357	357	357	357	357	357
200639											242	348	211	273	274	406	329	407	323	353	219	414	346	346	346	346	346	346	346
200638											358	298	355	232	410	331	348	204	436	433	339	339	252	226	226	226	226	226	226
200637											445	448	415	415	403	276	414	246	219	396	397	329	460	322	242	242	242	242	242
200636	356	361	361	376	366	437	302	322	225	307	352	265	355	333	219	259	259	259	259	259	259	259	259	259	259	259	259	259	
200635	263	361	417	213	267	452	339	494	409	409	378	474	228	455	204	315	315	315	315	315	315	315	315	315	315	315	315	315	
200634	356	297	407	305	288	468	366	323	278	343	259	429	475	464	222	277	277	277	277	277	277	277	277	277	277	277	277	277	
200633	203	311	244	448	496	452	436	294	434	375	313	466	398	347	331	396	396	396	396	396	396	396	396	396	396	396	396	396	
200632	273	298	443	321	203	395	335	373	339	297	201	352	220	417	360	384	384	384	384	384	384	384	384	384	384	384	384	384	
:																													
200624	245	482	208	281	270	252	305	275	415	265	435	394	387	363	237	310	310	310	310	310	310	310	310	310	310	310	310	310	

Water fall report

- The water fall report shows all “**delivery schedules**” for a given time period




	Quantity																												
Despatch week ►	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
Delivery Schedule week ▼																													
200648													216	215	223	382	382	382	382	382	382	382	382	382	382	382	382	382	382
200647												218	414	467	309	297	297	297	297	297	297	297	297	297	297	297	297	297	297
200646											395	376	277	317	317	483	483	483	483	483	483	483	483	483	483	483	483	483	483
200645										291	299	275	438	360	275	219	219	219	219	219	219	219	219	219	219	219	219	219	219
200644									269	413	329	331	404	466	243	388	388	388	388	388	388	388	388	388	388	388	388	388	388
200643							280	429	406	470	458	408	328	313	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307
200642						319	428	475	417	424	402	369	376	201	448	448	448	448	448	448	448	448	448	448	448	448	448	448	448
200641					238	483	241	409	422	292	397	414	456	306	259	259	259	259	259	259	259	259	259	259	259	259	259	259	259
200640				334	489	435	226	290	352	347	340	497	345	203	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357
200639			242	348	211	273	274	406	329	407	323	353	219	414	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346
200638		358	288	355	232	410	391	348	204	436	433	339	339	252	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226
200637	445	498	415	445	403	276	414	246	219	396	397	329	460	322	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242
200636	356	381	361	326	366	497	302	322	225	307	352	265	355	333	219	259	259	259	259	259	259	259	259	259	259	259	259	259	259
200635	263	361	417	213	267	452	339	494	409	409	378	474	228	455	204	315	315	315	315	315	315	315	315	315	315	315	315	315	315
200634	356	287	407	305	288	468	366	323	278	343	259	429	475	464	222	277	277	277	277	277	277	277	277	277	277	277	277	277	277
200633	203	311	244	448	496	452	436	294	434	375	313	466	398	347	331	396	396	396	396	396	396	396	396	396	396	396	396	396	396
200632	273	298	443	321	203	395	335	373	339	297	201	352	220	417	360	384	384	384	384	384	384	384	384	384	384	384	384	384	384
:																													
200624	245	482	208	281	270	252	305	275	415	265	435	394	387	363	237	310	310	310	310	310	310	310	310	310	310	310	310	310	310

DSQ report structure



Demonstration of DSQ system

Home Help Violin Up to vtc-gm-bt-dsq

 Delivery Schedule Quality  

Home Standard Reports Flexible Reports Modify This Workspace ▾

Introduction ▾

Welcome to Delivery Schedule Quality
The Delivery Schedule Quality [DSQ] measures the quality in the delivery schedules send to the suppliers comparing between different time horizons.

DSQ measurement is based on the parts "value deviation" between schedules and supports the materials planner to identify suppliers and parts with high deviations over the time to be able to take corrective actions.

Edit text

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There are currently no active announcements. To add a new announcement, click "Add new announcement" below.

Add new announcement

Contacts / Support ▾

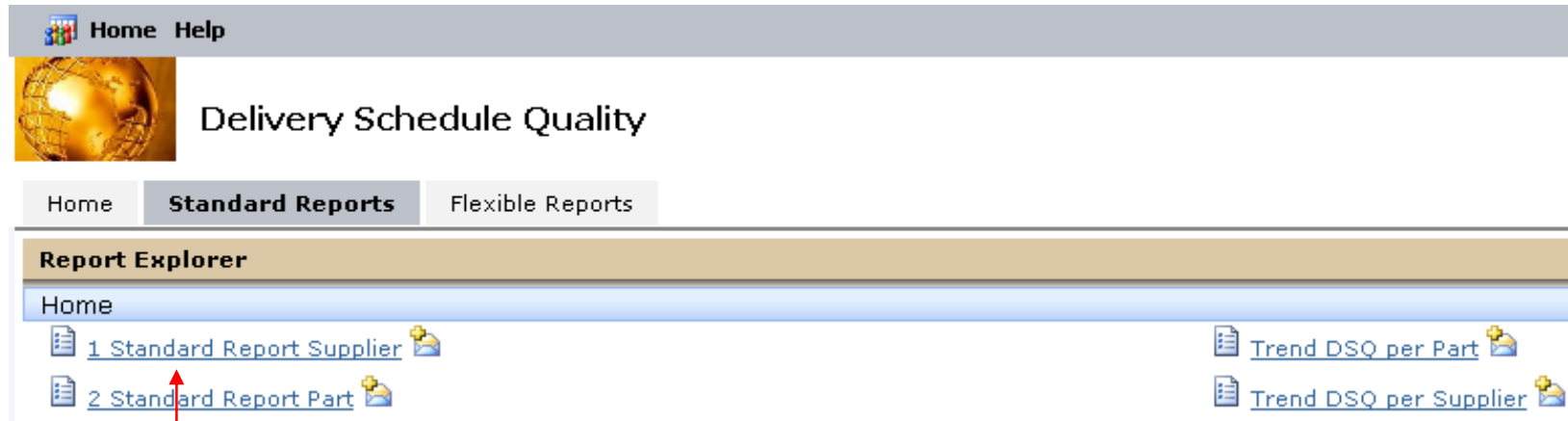
Edit text

Instructions / Help ▾

Title	Content	
DSQ Analyze Steps	This document describes how to perform a DSQ analyze in four steps.	
General Presentation of DSQ	Here you can read about DSQ and how to analyze delivery schedule quality.	

Add new item

Standard reports



The screenshot shows a web application interface. At the top, there is a navigation bar with 'Home' and 'Help' links. Below this is a header section with a globe icon and the title 'Delivery Schedule Quality'. A secondary navigation bar contains 'Home', 'Standard Reports', and 'Flexible Reports' tabs. The main content area is titled 'Report Explorer' and contains a 'Home' section with four report links: '1 Standard Report Supplier', '2 Standard Report Part', 'Trend DSQ per Part', and 'Trend DSQ per Supplier'. A red arrow points to the '1 Standard Report Supplier' link.

Click on [1 Standard Report Supplier](#) to open the report

1. Supplier report

No real data

Choose Site, Supplier and Delivery Schedule week...

Report Viewer

Site: 1002 - PARTS/GENT | Material Controller: All | Supplier: All | Delivery Schedule Week: 2007-48 | Dispatch Week: 2007-49 | Standard Report: 4 Weeks | View Report

3 of 14 | 100% | Find | Next | Select a format | Export

Standard Report Supplier 4 Weeks

To find a specific Supplier enter the Supplier number and press "Find"

Supplier	Trend	DSQ Value	Old DS Value 2007-44	New DS Value 2007-48	Diff Value	DSQ Qty	Old DS Qty 2007-44	New DS Qty 2007-48	Diff Qty
1		77 %	28750	37521	8771	68 %	524	774	250
2		77 %	1243	1621	378	81 %	1760	2160	400
3		77 %	7619	9891	2272	84 %	3750	4485	735
		77 %	7297	6938	-359	96 %	106	106	0
		77 %	423781	536639	112858	78 %	107546	134368	26822
		77 %	7081	7900	819	78 %	4230	4655	425
		77 %	25360	23185	-2175	75 %	90	80	-10
		77 %	84278	91748	7470	94 %	10615	10761	146
		78 %	8746	11256	2510	78 %	289	369	80
		78 %	33790	26257	-7533	78 %	727	565	-162
		78 %	91344	115272	23928	70 %	8977	12830	3853
		78 %	21414	18382	-3032	82 %	1151	957	-194
		78 %	23178	27223	4045	79 %	56434	67389	10955
		78 %	4136	4114	-22	90 %	2610	2590	-20
		78 %	5106	6532	1426	94 %	16675	17705	1030

Click on the "Trend" to analyse the trend for the Supplier

12345678

Click on the Supplier to analyse the parts for the Supplier



2. Part number report

Report Viewer

Site: 1002 - PARTS/GENT | Material Controller: All | Supplier: 12345678 | Delivery Schedule Week: 2007-29 | Dispatch Week: 2007-38 | Standard Report: 4 Weeks | View Report

76 of 94 | 100% | Find | Next | Select a format | Export

Part number	DSQ Value	Old DS Value 2007-25	New DS Value 2007-29	Diff Value	DSQ Qty	Old DS Qty 2007-25	New DS Qty 2007-29	Diff Qty
1	94 %	4035	3798	-237	94 %	170	160	-10
2	94 %	2485	2343	-142	94 %	1050	990	-60
3	94 %	1020	963	-57	94 %	90	85	-5
4	94 %	2203	2333	130	94 %	85	90	5
5	94 %	29718	31466	1748	94 %	170	180	10
654321	94 %	857	907	50	94 %	6800	7200	400
	95 %	54902	58094	3192	95 %	20640	21840	1200
	95 %	1388	1468	80	95 %	260	275	15
	95 %	1080	1140	60	95 %	90	95	5
	95 %	4341	4582	241	95 %	90	95	5
	95 %	3947	4167	220	95 %	180	190	10
	95 %	1737	1646	-91	95 %	190	180	-10
	95 %	3591	3411	-180	95 %	200	190	-10
	95 %	1883	1982	99	95 %	95	100	5
	95 %	4568	4340	-228	95 %	4320	4104	-216

Click on the Part to view delivery schedules

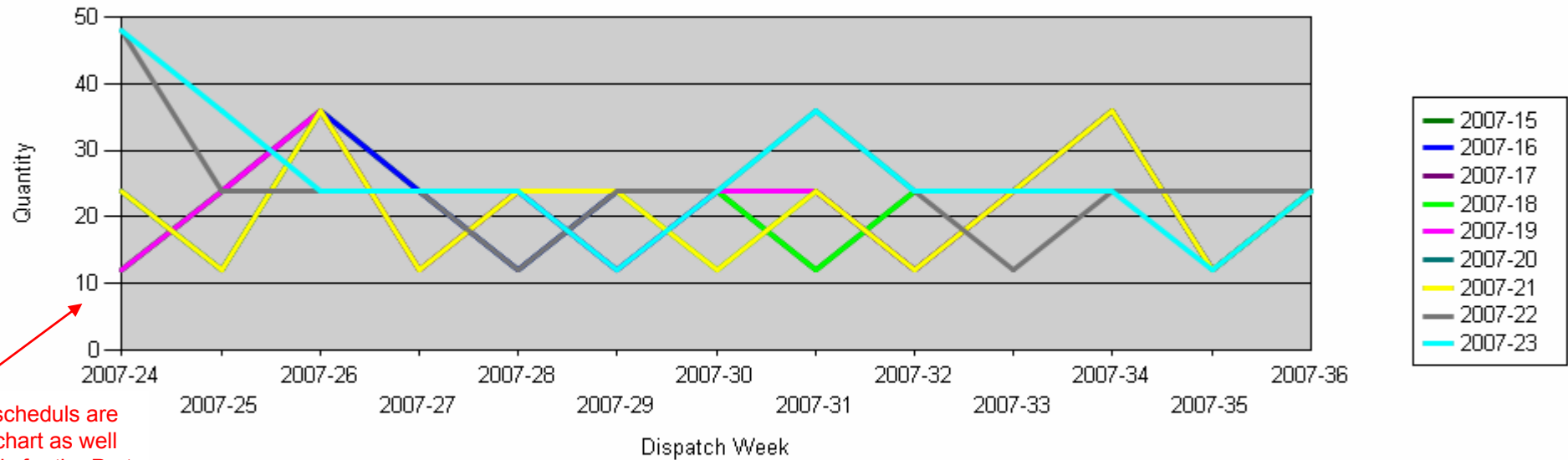
Done | Unknown 2

3. Part delivery schedules

No real data

Waterfall Report

Dispatch Week: 2007-24 to 2007-36
 Delivery Schedule Week: 2007-15 to 2007-23
 Supplier: 11:
 Part: 31



The delivery schedules are visible in the chart as well as in the matrix for the Part

	2007-24	2007-25	2007-26	2007-27	2007-28	2007-29	2007-30	2007-31	2007-32	2007-33	2007-34	2007-35	2007-36
2007-23	48	36	24	24	24	12	24	36	24	24	24	12	24
2007-22	48	24	24	24	12	24	24	36	24	12	24	24	24
2007-21	24	12	36	12	24	24	12	24	12	24	36	12	24

Trend report by Supplier

No real data

Report Viewer

Site: 1002 - PARTS/GENT Material Controller: All

Supplier: 115 Delivery Schedule Week: 2007-23

DSQType: DSQ Value 4 weeks

1 of 1 100% Find | Next Select a format Export

Trend Report per Supplier - DSQ Value 4 weeks

Site: 1002 - PARTS/GENT
Material Controller: All
Supplier: 115
Dispatch Period (weeks): 1

Supplier	Dispatch Week	2007-13	2007-14	2007-15	2007-16	2007-17	2007-18	2007-19	2007-20	2007-21	2007-22	2007-23	2007-24
12345678		0 %	0 %	70 %	31 %	43 %	52 %	31 %	21 %	58 %	60 %	76 %	24 %
All Suppliers		0 %	0 %	70 %	31 %	43 %	52 %	31 %	21 %	58 %	60 %	76 %	24 %

Click on the **Supplier** to analyse the trend for the parts of the Supplier

Trend report by Part

Report Viewer

1 of 1 100% Find | Next Select a format Export

Trend Report per Part - DSQ Value 4 weeks

Site: 1002 - PARTS/GENT
 Material Controller: All
 Supplier: 115
 Dispatch Period (weeks): 1

Part	Dispatch Week	2007-13	2007-14	2007-15	2007-16	2007-17	2007-18	2007-19	2007-20	2007-21	2007-22	2007-23	2007-24
1		0 %		67 %		0 %	67 %		0 %	0 %		67 %	
1		0 %		82 %	0 %	0 %	0 %	0 %	0 %	60 %	0 %	67 %	
2												0 %	0 %
3		0 %	0 %	67 %	50 %	100 %	67 %	50 %	50 %	100 %	100 %	100 %	25 %
All Parts		0 %	0 %	70 %	31 %	43 %	52 %	31 %	21 %	58 %	60 %	76 %	24 %

Click on the Part to open the waterfall analyse and look at several delivery schedules for the Part

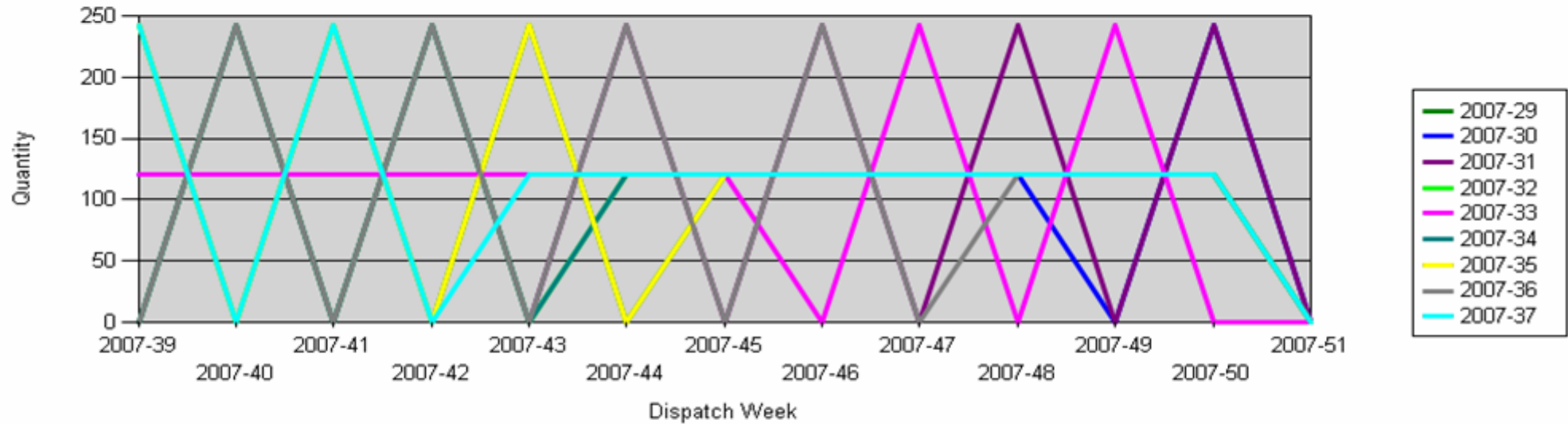
Waterfall Report

Delivery schedules

No real data

Example

Dispatch Week: 2007-39 to 2007-51
 Delivery Schedule Week: 2007-29 to 2007-37
 Supplier: All
 Part:



	2007-39	2007-40	2007-41	2007-42	2007-43	2007-44	2007-45	2007-46	2007-47	2007-48	2007-49	2007-50	2007-51
2007-37	242	0	242	0	121	121	121	121	121	121	121	121	0
2007-36	0	242	0	242	0	242	0	242	0	121	121	121	0
2007-35	242	0	242	0	242	0	121	121	121	121	121	121	0
2007-34	0	242	0	242	0	121	121	121	121	121	121	121	0
2007-33	121	121	121	121	121	121	121	0	242	0	242	0	0
2007-32	0	242	0	242	0	121	121	121	121	121	121	121	0
2007-31	0	242	0	242	0	242	0	242	0	242	0	242	0
2007-30	121	121	121	121	121	121	121	121	121	121	0	242	0
2007-29	242	0	242	0	242	0	121	121	121	121	121	121	0

DSQ system

- Forecast delivery schedule quality measurement tool used by the materials controllers.
- Easy to analyze forecast accuracy “top down” from supplier to part number level for actions to be taken.
- Visualize delivery schedules that are send to the suppliers for the materials controllers.

Thank you!