Deltek Acumen Risk> Analysis and Reports Series

Quick Reference Guide

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Acumen Risk 8.2 - Risk Analysis

This infographic highlights the tools and features which can be used to manage Risk Analysis.

Importing Project Data

A	ctivities															
	Id			Description	Remaining	Ţ	Duration Uncertainty	Туре	=	%	CLT	Cor	Rem	Start	Finish	Т
т																
۲	8			Current Schedule P		Ţ										
			Current Schedule	Current Schedule	504d	Ţ							100w	1/1/2010 9:00 AM	2/4/2014 3:30 PM	
			0090	Handover	0d					100 %			0w	12/26/2013 3:30 PM	12/26/2013 3:30 PM	
			0100	Project Finish	0d					100 %			0w	2/4/2014 3:30 PM	2/4/2014 3:30 PM	
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			Current Schedule.0050	Procurement	155d	Ţ							31w	2/1/2010 9:00 AM	10/4/2012 11:30 AM	
			0350	Bid reviews	30d	Ţ		\sim		100 %		-25	5w	8/27/2012 1:30 PM	10/4/2012 11:30 AM	
			0360	Initial Long Lead it	90d	Ţ		\sim		100 %		-22	16w	3/9/2012 1:30 PM	7/5/2012 10:30 AM	
			0370	Vendor B	15d	Ţ				100 %		12	2w	7/11/2012 4:30 PM	8/1/2012 7:30 AM	
			0380	Vendor A	25d	Ţ				100 %		12	4w	3/1/2012 8:00 AM	4/3/2012 11:30 AM	
			0390	Outsourced PMO	95d	Ţ			Ħ	100 %		12	17w	2/1/2010 9:00 AM	7/3/2012 12:30 PM	
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			0680	Vendor C	20d	Ţ			Ħ	100 %		-29	3w	8/1/2012 7:30 AM	8/27/2012 1:30 PM	
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		•				Ţ										
		÷	Current Schedule.0080	Commissioning	74d	Ţ							14w	9/4/2013 4:30 PM	12/18/2013 11:30 AM	

• Project Data can be imported into Acumen Risk which is then displayed in S1//Projects.

- Data analysis can be performed on Projects, Snapshots and Scenarios.
- Within the S3//Risk model, data is Grouped by WBS as default but field grouping can be set up.

Set up Views

The setup of the S3//Risk tab follows the standard Acumen platform set-up. Sub-views can be selected through the left/right panel menu options. The sub-views have the options to set the left and right panels to different views.

3





Acumen Risk 8.2 - Risk Analysis

DU

CPM with Risk Analysis



Risk Analysis Process



Analyse Components

The validity and reliability of the Risk Analysis results are directly impacted by the quality of the schedule. If the schedule is not good quality, a **schedule check** should be run before any further analysis is conducted.

Constraints

Leads/Lags

Missing Logic

Redundant Logic

Duration Uncertainty

- Normal Variation
- Stop signs or stop lights
- Discrete Risk Events
- Individual Event
- Probability
- Consequence/Impact
- Car accident or train crossing

Analyse Schedule Quality



Acumen Risk 8.2 - Risk Mitigation



Scenario Creation

Scenario generation is very flexible in Deltek Acumen Risk[®]. A new scenario can be created to look at varying uncertainty levels for a **specific set of activities**, or **different cost uncertainty levels**, or **different sets of discrete risk events** with the same assumptions on uncertainty.



Note: When a scenario is created, it adopts all of the project schedule characteristics, including the base uncertainty, risk register, and mapped risk event(s). The scenario, at the moment of creation, is an exact duplicate of the original schedule risk model.

Mitigation Set Up

FI)

Mitigation steps are the activities that are added to a project to reduce the probability and/or impact of a risk event. The best mitigation steps reduce both probability and impact. Typically, a mitigation step only impacts one or the other.

1		R9	9	Risk of delay due to fab yard cons.	V	ery High	Very High	High	25	1	Yard Strategy	0d	\$510,000	Very Low	High
V		R10	9	Risk of delay due to heavy lift vess	Lo	w V	Very High	Very High	10			0d	\$0	Low	Very High
v		R11	9	Risk of lack of labor availability of	. N	ledium 1	Medium	High	12			0d	\$0	Medium	Medium
v		R34	9	Risk of actual required resources e	V	ery High H	High	Medium	20			0d	\$0	Very High	High
1		R35	9	Risk of major mechanical equipme	N	ledium I	High	Low	12			0d	\$0	Medium	High
1		R36	9	Riks of theft of materials (especiall	Н	igh V	Very High	High	20			0d	\$0	High	Very Hig
V		R37	9	Risk of major dredging equipment	V	ery High	Very High	High	25	1	Contract backu	10d	\$1,000,000	Medium	Medium
V		R38	9	Risk of change in law impacting c	. н	igh N	Very High	Very High	20	1	Liaison with loc	30d	\$0	Medium	Very Hig
V		R40	9	Risk of review of safety report res	. Lo	w wo	Medium	Medium	6			0d	\$0	Low	Medium
1		R41	9	Risk of delay in approvals of visas	Н	igh l	Low	Very High	20			0d	\$0	High	Low
/		R42	-	Risk of inability to hire craft to mai	V	ery High H	High	Very High	25			0d	\$0	Very High	High
/		R44	9	Risk of Governmental agency dire.	V	ery High I	Medium	Low	15			0d	\$0	Very High	Medium
J		R45		Risk of delays in releasing equipm.	Lo	w v	Very High	High	10			0d	\$0	Low	Very Hig
-													**		
f dela	y due Mapping	vard Miti	constrain gation Ste	rps											
nable	d Step	De	scription	Duration		Cost	Probability	Schedule	Cost	S	core				
-	1	Pro	ocure Yard	Early	0d	\$500,000	Very Low	Very High	High		5				
V															

Identify Top Risk Drivers



2 Single or Steps (Sequential)

3

Single sums up the individual steps

The results of the mitigation analysis can be sent to Risk Comparison to determine if the benefits of the mitigation balance out against the costs and time commitment.

Acumen Risk 8.2 - Cost Risk Analysis Process

Cost Risk Analysis Process

1 Evaluate and Clean-Up Schedule	5	S	Select Mitigation
2 Assign Uncertainty Estimates for Schedule, Set up	6		Update Schedule and Cost Estimate
3 Discrete Risk Events for Schedule - Run Worst Case	7	()	Publish P-value Schedule and Cost Estimate
4 O Brainstorm Mitigation - Run Option Analysis			

Uncertainty Factor™ Template for Base Cost Uncertainty

The Uncertainty Template is used by both the **Risk Advisor** and the **Uncertainty Factor**[™] **features**. These Templates contain a finite number of levels of uncertainty that define the percentages from which the **minimum**, **most likely**, and **maximum** durations are calculated.



Cost of Time Contribution



Difference Between Base Uncertainty and Time Overlay

 Difference Between Base Uncertainty and Time Overlay To Save the \$50,000,000 – go after the Time Not the Price

Acumen Risk 8.2 - Cost Risk Analysis Process



Schedule Impact on Cost Risk



Acumen Risk 8.2 - Risk Analysis Outputs



Risk Sensitivity

Risk Sensitivity chart shows the relationship and **Joint Confidence Level (JCL)** between activities and/or costs in a scatter chart format. The Risk Sensitivity chart is viewed by selecting it from the Right Panel pull-down. The chart displays quadrants that show where cost and/or finish date were less than or greater than their deterministic values. The axes can be individually defined and are typically set for a cost vs. finish date analysis.



Joint Confidence

Joint Schedule/Cost Analysis is accessed by first running the Risk Sensitivity and then putting a check in the Joint Confidence box at the bottom of the analysis screen. The level of Joint Confidence is also selected through the pull-down box on the same analysis screen.





Acumen Risk 8.2 - Risk Analysis Outputs

Critical Schedule Drivers



0630 - Certification 0640 - Third Party Validation 0650 - Internal Pre-Comms 0680 - Vendor C

Acumen Risk 8.2 - Risk Modelling

This infographic provides a high level overview to Risk Modelling.

What is Risk Modelling?

Risk Modelling shows the relationship between **Estimate Uncertainty** and **Risk Events**. Risk Events are often included in Uncertainty Estimates and by identifying what they are, we can manage Risk Events within the Risk Register which allows for a more refined Estimate Uncertainty.



Uncertainty + Risk Events = Total Risk Exposure

Terminology





Acumen Risk 8.2 - Risk Advisor



Risk Advisor[™]

The Risk Advisor[™] makes uncertainty template suggestions based on **Schedule Quality, Historical Performance (Baseline vs. Current), an individual metric, or an individual field**. For each selection an uncertainty template is defined and then applied based on the mode selected and the criteria established.



Viewing Uncertainty Profile

The Uncertainty distribution chart includes only activities that have a status of **not-complete**. So, activities with a remaining duration of zero have **No Risk** assigned and are not shown in the distribution.



Acumen Risk 8.2 - Risk Advisor



Export/Import Values

Save and Re-apply to Next Risk Model

Schedule Name and Activity IDs MUST be the same





- Absolute numbers Percentages are calculated
- Percentages Numbers are calculated

Acumen Risk 8.2 - Risk Mapping



Risk Event Impacts

Multi	ple Risk	Events to a	a Single	e Activitv

Risk ID	Description	Probability	Impact
0001	Hurricane	25%	2 10 days
0002	Labor Strike	50%	1 50%

De	etai	ils	Mappings Mitigation S	teps				Ri							
	R	٤	Activity	Min Proba	Max Proba	Min Durati	Max Durat	ſ							_
•	1	x	1.2.A.103.02: Assemble S	75 %	100 %	3d	3d			R	Activity	Min Proba	Max Proba	Min Durati	Max
	1	×	1.2.A.103.06: Install Pipe	75 %	100	17d	21d		Þ	×	1.2.A.103.02: Assemble S	75 %	100 %	40d	
F		×	1.2.A.103.07: Install Equi	75 %	10	7d	8d			×	1.2.A.103.06: Install Pipe	75 %	10	40d	
E		×	1.2 A 103.09: Install Vents	75 %	100 %	7d	84			×	1.2.A.103.07: Install Equi	75 %	100	40d	
E			1.2 A 102 20: Install Educ	75 %	100 9	74	24			×	1.2.A.103.09: Install Vents	75 %	100 %	40d	
		~	1.2.A.105.20. Install Fons	/576	100 %	70	a			×	1.2.A.103.20: Install Fdns	75 %	100 %	40d	

- Percentages Each activity receives a %
of the remaining duration/cost
- 2 **Pro-Rated Number** Each activity receives its portion of impact depending upon its portion of remaining duration/cost



rat... 50d 50d 50d 50d

Mapping Risk Events

Risk events **must** be mapped to activities/cost elements in order to be included in the risk model. Mapping can be done **several different ways**. If the risk register is fully populated, then the mapping is a process of assigning the risk events to the correct activity or activities. If the risk register is empty, then a risk event can be **both** entered into the register and assigned simultaneously.



 Individual Activity or Summary Activity -Children get Absolute or Pro-Rated Amount of Risk
 Manual Mapping – Map from Risk Events to Activity(s)
 View Mappings – Mappings Tab

Acumen Risk 8.2 - Risk Mapping



Automatic Mapping

		Ship_Example - Delte	cumen	
S1 // Projects S2 // Dia	ignostics S2 // Logic S2 // Bench	hmarking S3 // Risk S4 // Acceleratio	S5 // Dashboa	
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		170d 🖵 🎦 🖓 🚛 🛄 🚛		
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	1.2.A.103 Assemble Unit 103	197d 🛄 🎦 🦣 🚛 💻 📕		Individual Activity of Summary Activ
	1.2.A.105.02 Assemble Steel			Children get Absolute or Pro-Rated
	1.2.A.103.06 Install Pipe			
	1.2.A.103.09 Install Vents			Amount of Risk
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atio	1.2.E.101 Erect Unit 101	5d 🖵 🎦 🏭		to Risk Events
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	1.2.E.103 Erect Unit 103	50	V	
	1.2.r shop rabilication			
				View Mappings – Risk Event Tab
1.2.A.103 - Assemble Unit 103 -	- accommodations			
General Status	Relationships Duratin	ion Uncertainty Cost Uncertainty		 Good view for project team
Contract Resource A	Assignments Risk Events	Control Accounts / Work Packages		
3				
R Activity	Event	Min Proba Max Proba Min Durati Max Du		
1.2 A 103.02: Assemb 1.2 A 103.02: Assemb	Ile S Risk of delay due to fab yard cons	75 % 100 % 40d		
1.2A.103.07: Install F	qui Risk of delay due to fab yard cons	75 % 100 % 400		
	/ents Risk of delay due to fab yard cons	75 % 100 % 40d		
1.2.A.103.09: Install V	dns Risk of delay due to fab yard cons	75 % 100 % 40d		
 1.2 A 103.09: Install V 1.2 A 103.20: Install Fill 	and make of deady due to had yard contain			
1.2.A.103.09: Install V 1.2.A.103.20: Install F				
1.2.A.103.09: Install V				
12A103.09: Install V				

Import/Export

Risks can be **edited/added/removed** in the MS Excel file, independent of Deltek Acumen Risk[®]. Then can be imported back into the Deltek Acumen Risk[®] Risk Register by selecting Import Risk Register from the same pull-down menu as the Export.



Ris	k Registe	er														
1	Risk								Current			Mit				
1	Enabled	Absolu.	ID	Type	Name			1	Probability	Schedule Cost	Score	Ena				
т																
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			P25		Rick of m	6 Yes	No	R4	Threat	Risk of insufficient SURF contractor	r re Low	High	Very High	10	No	
			1055		NISK OF THE	7 Yes	No	R5	Threat	Risk of pirates during FPSO sail fro	m f. High	High	Medium	16	No	
	V		R36	× .	Riks of the	8 Yes	No	R6	Threat	Risk of poor quality materials bein	g de Medium	Medium	Low	9	No	
	1		R37		Risk of ma	9 Yes	No	R8	Threat	Risk of damage to key equipment	duri Low	Low	Medium	6	No	
	5		R38		Risk of ch	10 Yes	Yes	R9	Threat	Risk of delay due to fab yard const	raii Very High	Very High	High	25	Yes	Pro
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	V		N40	7	NISK OF THE	13 Yes	No	R34	Threat	Risk of actual required resources e	xce Very High	High	Medium	20	No	
	1		R41		Risk of de	14 Yes	No	R35	Threat	Risk of major mechanical equipme	nt (Medium	High	Low	12	No	
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	1		R12	1	Winter W	21 Yes	No	R44	Threat	Risk of Governmental agency direc	tin Very High	Medium	Low	15	No	
						22 Yes	No	R45	Threat	Risk of delays in releasing equipme	nt Low	Very High	High	10	No	
						23 Yes	No	R7	Calendar	Hurricane Window	Negligible	Negligible	Negligible		No	
						24 Yes	No	R12	Calendar	E Winter Weather Interruption	Negligible	Negligible	Negligible		No	
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						35										
						36										
						F	Events	Links	Calendar E	vent Details Mitigation Steps	\oplus					

Acumen Risk 8.2 - Risk Analysis Exposure



Risk Analysis Exposure Options

Simulation	
Number of Iterations	
Perform risk analysis until results converge to given accuracy.	1 Simulation
Automatic Accuracy	
Convergence Iterations 100 🗘	 Accounts for all reasonable combinations Follows the CPM Schedule Logic
Uncertainty Only (No Risk Events) Perform the risk analysis including only duration uncertainty.	 Run iteration until results don't vary significantly Sets number of iterations
Uncertainty and Risk Events (No Mitigation) Perform the risk analysis including both uncertainty and pre- mitigated risk events.	
Uncertainty and Risk Events (Mitigated, Excluding Overhead) Perform the risk analysis including both uncertainty and pre- mitigated risk avents but without the cost (schedule effort	Z Scenarios
required for mitigation.	Combination of Uncertainy, Risk Events,
Uncertainty and Risk Events (Mitigated, Including Overhead) Perform the risk analysis including both uncertainty and pre- mitigated risk events, and including the cost/schedule effort	Mitigation, Overhead
required for mitigation.	3 Interaction
Interaction	
Automatic Automatically run all of the risk analysis iterations using multiple CPU cores. (Fastest)	Accuracy, Interactive, Diagnose
Interactive Automatically run risk analysis iterations and view the values changing during the execution. (Fast)	4 Repeatability
Diagnose Manually run each risk analysis iteration and view the values changing during execution. (Slow)	5 Activity Correlation
lepeatability	
Use Fixed Seed Seed Value	6 Hierarchical Risk Models
Activity Correlation	Overall Correlation
Use correlation to link activities	 Less than 3 levels below uncertainty
ierarchical Risk Models Use Correlation to Overcome the Central Limit Theorem.	assignment
Correlation Coefficient 50 % 🗘	7 Cost/Schedule Integration
Cost/Schedule Integration	

Risk Mentor



Checks schedule quality score
 If below 75, gives message and what metric is the issue

Acumen Risk 8.2 - Risk Analysis Exposure



Risk Drivers



Most Vulnerable Activities
 Top Risk Event Drivers

- Criticality
- Correlation Statistic
- Both can be misleading

	RISK CONTRIDUTION
•	Select P-Value
•	
٠	Schedule or Cost Contribution
_	

3 Differentiates sources -Logic, Uncertainty, Risk Events

Comparison and Chart Customization

The Risk Comparison chart can be customized for the **data curves (colors, labels, date unit) and variances**. If there are only two curves on the chart then the variance is automatically added. If there are more than two curves on the chart, then two must be selected for the variance to be shown.



Acumen Risk 8.2 - Risk Analysis Reports



Schedule or Cost Analysis

Risk Sensitivity chart shows the relationship and joint confidence level (JCL) between activities and/or costs in a scatter chart format. The Risk Sensitivity chart is viewed by selecting it from the right panel pull-down.



Activities/Gantt Chart
• Print Preview • Export

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Analysis	Relationship	ps (64)	_			Enish (B) Late Start (56)	Longest Path (12)				
Create Analysis	,r	orensic	Cheoks	General	Inputs		Outputs		Smart	Santt* Publish		
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			5 0360	Initial Long Lead items	Normal	90	Current Schedule.0050	Procurement	=	7/5/2012 10:30:00 AN	1 🔺 7	4 9/17/2012 12:30:00 PM
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		1/	0410	Phase 5	Normal	20	Current Schedule.0060.0450	Offshore	12	19/2012 11:30:00 AN	4 🔺 9	9 3/28/2013 12:30:00 PM
		1	0420	Phase 2	Normal	10	Current Schedule.0060.0440	Domestic	=	11/5/2012 7:30:00 AN	4 4 8	4 1/28/2013 7:30:00 AM
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Acumen Risk 8.2 - Risk Analysis Reports



Risk Executive Briefing

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Risk Adjusted Schedule

Once the schedule has been analyzed for risk, a new scenario can be created based on the **risk inputs** or **risk outputs**. This is very useful when a schedule needs to be re-calibrated based on the project team's uncertainty rankings or a deterministic schedule (that includes all of the risk impact) needs to be created for a customer. Deltek Acumen Risk[®] can automatically create the risk-adjusted schedule using either the **risk inputs** or **risk outputs**.

Build	0.+	Uncertainty	Risk Matrix	Create Cost Estimate +	F					
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Risk O	utputs									
	Scenario based on Risk Outputs Build a risk adjusted scenario based on the outputs of the Monte Carlo risk analysis (e.g. Create a P50 schedule).									
	P Sche	dule		50 ‡						

Based on Uncertainty Inputs

- PERT Method = [Max+(MostLikely*4)+Min]/6
- Median Method = Value that Separates the Min from the Max

Based on Risk Analysis Outputs

- Select P-Value
- Assembles CPM Based on P-Value Durations

Exportable to:

- P6 XER
- MS MPP or XML
- Deltek OpenPlan (publish updates)
- UN/CEFACT schedule schema