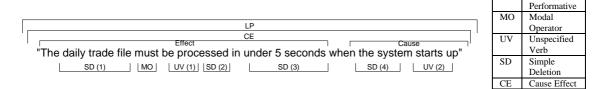
An Annotated Meta Model Example

"The daily trade file must be processed in under 5 seconds when the system starts up"

Meta Model Elements



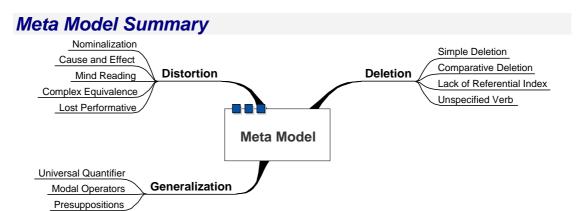
- 1. Identify the Meta Model Elements
- 2. What questions can we ask?
- 3. Identify the presuppositions
- 4. What do they lead to?
- 5. Ask the questions early
- 6. Use the questions as test conditions
- 7. Use the questions to guide your exploratory testing

LP	Who says "The daily trade file must"?
SD(1)	Containing what?
	From where?
	Called what?
	Stored where?
MO	What if it isn't?
UV (1)	Processed How specifically?
SD (2)	Processed by what? It might be a mistake to assume it is
	the same system that starts up.
SD (3)	Where did this number come from?
	How Much under 5 seconds?
SD (4)	Which system?
UV (2)	Starts how?
	Starts When?
CE	Processed only when the system starts up?
	Never processed at any other time?
	Processed by any other systems?
	So if the system didn't start it wouldn't be processed?

Lost

Presuppositions

Presupposition	Leads to	
There is a daily trade file	what if it doesn't exist?	
The trade file is generated in some way	by what system?	
The trade file is accessible	is it on our environment, where does it reside?	
	What if the permissions are set wrong?	
The trade file can be processed	What if it is corrupt? Locked? Too Big?	
The trade file is a file	What kind of file? Binary, Text?)	
The system will start-up on a daily basis	What if the system doesn't start up one day, does the	
	trade file get overwritten or something worse?	
	What if the system starts up more than once?	
There is only one daily trade file		
The system can process a trade file in under 5 seconds	What if it is too big?	
• •	What if the transactions are very complicated?	
There are knock on effects if the file is not processed in under '5'	What happens if it doesn't?	
seconds: 'must'		
The daily trade file only contains trades for a day?	What does the File contain?	
	What does a trade look like?	
	What is a trade?	
	What kinds of trades?	
The system knows how to find the file	Is the location hard coded?	
	Is the location passed as a parameter?	
	Is the location in a config file?	
The trade file has a specific name format	Is it always named the same thing?	
The daily transaction file has transactions in it	What if the file is empty?	
The daily transaction file is produced daily	Produced by what system?	
	Produced when?	
The daily transaction file is generated before our system starts up	What if the system starts up as the file is being	
	generated?	
The system is closed down at some point (in order to start up again)	What if the system is not closed down?	



Meta Model Element	Examples	Questions	
Nominalization	"The Software Testing is	Convert object to a process	
(N)	inadequate"		
	45TD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"What is involved in your software testing?"	
A process represented as a noun Cause & Effect	"Testers don't get any respect" "Late delivery of software makes	"How do you know you are not respected?"	
(CE)	me angry"	Identify missing information associated with the causality	
(CE)	me angry	causaniy	
X Causes Y		"How specifically does it make you angry?"	
Stimulus and response		"Does it always make you angry?"	
Mind Reading	"They hate testers"	Identify source of claim	
(MR)			
Claim to be suited as (after about		"How do you know?"	
Claim to knowledge (often about someone else's internal state)			
Complex Equivalence	"They really don't know how to	Check validity of the equivalence	
(EQ)	develop software, the requirements	Check validity of the equivalence	
	are never signed off."	"So if the requirements were signed off, that	
2 statements represented as		would mean that they knew how to develop	
equivalent		software? Is that all it takes?"	
Lost Performative	"It is wrong to test without writing	Identify Source and criteria	
(LP)	Test Scripts first"	((XXI)	
A value judgment with a missing		"Who says?", "According to whom?"	
judge and criteria.			
Simple Deletion	"This system is going to fail"	Recover deleted information.	
(SD)		,	
		"Fail how?", "which system?"	
Element missing from surface			
structure.	(CD) :		
Comparative Deletion (CD)	"This system is the worst" "This system is rubbish"	Identify the unstated comparison.	
(CD)	This system is rubbish	"Compared to what?"	
Missing reference point.		Compared to what	
Lack of Referential Index	"They have a poor process"	Identify the unstated reference.	
(RI)			
NT		"Who are they?"	
Noun not specified Unspecified Verb	"They went me to test this?"	Identify & armond the unstated work	
(UV)	"They want me to test this"	Identify & expand the unstated verb	
(0.)		"How specifically do they want you to test this?"	
Missing process details			
Universal Quantifier	"Nobody will ever do that"	Find a counter example to counter a limiting	
(UQ)		generalization	
		(CT 1	
A Generalization Modal Operator	"We must add this requirement	"I just did it" Explore the rule	
(MO)	"We must add this requirement now"	Explore the rule	
(1110)	IIOW	"What would happen if you didn't add that	
Rules for limits	"I can't run these tests"	requirement now?"	
		"What stops you running these tests?"	
Presupposition	"If they know how much work	Challenge presuppositions and test our analysis	
(P)	unsigned-off requirements caused		
William Control	us they would make sure they were	"How do you know they don't know?"	
What has to be true for this statement	all signed."		
to be true? Table: Meta Model Flowerts, examples, questions and objectives			

Table: Meta Model Elements, examples, questions and objectives

Meta Model Summary Diagrams

