

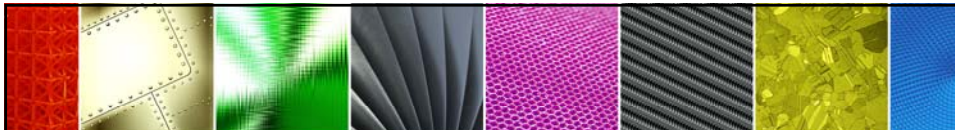
Agenda – day 2

Time	Duration	Session	Session Lead
9:00 AM	00:30	Member update 4	KSPG
9:30 AM	01:00	Technical session 4 - Workflow	Dan Williams
10:30 AM	00:20	Coffee break	
10:50 AM	01:00	Technical Project session: Welding & Joining	Fatih Cetin
11:50 AM	00:30	Member update 5	JLR
12:20 PM	01:00	Lunch	
1:20 PM	01:00	Technical session 5 - Material selection/recommendation	Arthur Fairfull
2:20 PM	00:15	Technical projects / shared development	Dan Williams
2:35 PM	00:25	Consortium process review; next meeting	Dan Williams
3:00 PM		Adjourn - opportunity to visit Motor Museum	

CONFIDENTIAL



GRANTA
MATERIAL INTELLIGENCE



Technical Session 4 – Workflow

Dan Williams



GRANTA
MATERIAL INTELLIGENCE
www.grantadesign.com



Agenda vote

⇒ Data management	Automating workflows	T4	5
Materials approval	Approval workflows	T4	5
Materials engineering	Capturing knowledge and expertise	T2	4
Simulation	Data provision for simulation	T1	4
Selection & specification	Materials selection / recommendation tools	T5	4
IT infrastructure	Global synchronization	T2	3
Data management	Collection of legacy data	T2	3
Simulation	Shared exporter development within AutoMatIC	Tech proj review	3
Selection & specification	PLM integration	T3	3
IT infrastructure	Data security	T2	2
Data model	Standard schema for adhesives/lubricants	Tech proj review	2
Data model	Standard schema for fabric materials	Tech proj review	2
Data management	Collection of future data	T2	2
Data management	Standardization of data	T2	2
Selection & specification	CAD integration	T3	2
IT infrastructure	Logging user activity	Software update	1
Data model	Standard schemas for wear/tribology		1
Data model	Standard schema for lightweight alloys	Tech proj review	1
Materials approval	Using GRANTA MI across the supply chain		1
other	Material data extraction from CAE model and comparison with database		1

CONFIDENTIAL



In this session

Area	Discussion topic	Session	Totals	GM	KSPG	PSA	JLR	HNY	
13	Data management	Automating workflows	T4	5	X	x	X	k	X
18	Materials approval	Approval workflows	T4	5	X	x	X	k	X

- Recap & review of Granta user stories and priorities
- Round table:
 - Why did you vote for these items?
 - How can AutoMatIC help?
 - What are the challenges in these areas?

CONFIDENTIAL



Recap

- Workflow user stories discussed at last AutoMatIC
- Granta has begun development of workflow integration with MI
- Priorities determined; key first steps are:
 - Underlying architecture; engine; integration
 - Material request/approval workflows
- We will demonstrate progress at Spring meeting

CONFIDENTIAL



Review of current stories and prioritization

Code	Category	Story	Priority
W1	Tasks	I want to log in and see a list of tasks which have been assigned to me (or some other slice, e.g. an admin sees all tasks)	Higher
W2	Tasks	I want to log in and see the status of tasks I'm associated with, e.g. which of my material requests are pending	Higher
W3	Tasks	I want to assign a task to an individual or group	Higher
W4	Tasks	I want to assign the appropriate permissions to carry out tasks to an individual or group (e.g. give Bob the ability to approve new polymer requests)	Higher
W5	Tasks	Enforce that certain people cannot have certain combinations of permissions, e.g. a material requestor can't also be a material approver	Lower
W6	Tasks	I want to log who is assigned tasks, and who has done tasks	Medium
W7	Tasks	I want to view the task log in a useful, readable way, e.g. a generate report on material approvals in the last month	Lower
W8	Tasks	A way to unassign yourself from a task	Medium
W9	Tasks	A way to cancel a request	Medium
W10	Tasks	A way for people in appropriate roles to change the status of a task, i.e. move it from one step in the workflow to the next	Higher
W11	Tasks	A way to assign priorities to tasks and sort in priority order	Lower
W12	Tasks	Logging, e.g. to report on how many of a particular workflow have been run that month/year	Medium
W13	Tasks	A "Trello board" or visual way to see status of tasks and move tasks from one status to the next	Lower
W14	Workflow types	A "Request" task type: see task stories below	Higher
W15	Workflow types	A "Review" task type: see task stories below	Higher
W16	Workflow types	A "Data process" task type: see task stories below	Lower
W17	Workflow types	A "Material selection" task type: see task stories below	Lower
W18	Workflow types	A "Publishing" workflow	Medium
W19	Workflow types	An "SPC" task type: see task stories below	Lower
W20	Forms	A way to create tailored forms for data entry	Higher
W21	Forms	Mandatory fields in forms	Higher
W22	Forms	Default values of fields in forms	Higher
W23	Forms	Numeric validation - e.g. values for a particular field must be between specified limits	Lower
W24	Forms	Cascading discretises - i.e. depending on what value I enter for one field, subsequent fields have restricted content	Medium
W25	Forms	Links in forms (e.g. to specify the colors I'd like the material I'm requesting to support)	Lower
W26	Notification	Automatically notify the assignees of a task that they have a new task pending	Higher
W27	Notification	Specify groups who should be notified of tasks once they are complete	Higher
W28	Notification	A way to control frequency of task related notifications, e.g. weekly/daily digest	Medium
W29	Workflow support	Unique IDs must be pointed so that no two requests can share the same ID	Lower
W30	Workflow support	Simple tool for tagging multiple records with status/other discrete values in bulk	Lower
W31	Workflow support	An option to return all versions of records in results instead of just the latest (e.g. for Boeing's approval workflow)	Lower
W32	Workflow support	Workflow status discretises can have a sequence specified, e.g. can go from "Requested" to "WIP" but not "Requested" to "Published"	Higher
W33	Workflow support	Ensure that when one person is working on a task, others are "locked out" from trying to do the same thing	Higher
W34	Workflow support	Specify a time-dependent value on attributes, e.g. to allow people time-limited access to data or flag tasks as urgent if they haven't been done after a week	Lower
W35	Authoring tool	An interactive UI for creating and designing workflows	Medium
W36	Authoring tool	A UI to specify and chain sequences, e.g. when an analyst has done a Data Process task, next step is to create an Review task for a material authority	Medium
W37	Authoring tool	A UI to specify rules, e.g. when a new record is created in this folder, create task X and send notification Y	Medium
Code	Workflow type	Story within workflow	Priority
T1-1	Request	Step through a tailored form to help me fill out a material request, e.g. desired properties	Higher

CONFIDENTIAL



In this session

Area	Discussion topic	Session	Totals	GM	KSPG	PSA	JLR	HNY
13 Data management	Automating workflows	T4	5	X	x	X	x	X
18 Materials approval	Approval workflows	T4	5	X	x	X	x	X

- Recap & review of Granta user stories and priorities
- Round table:
 - Why did you vote for these items?
 - How can AutoMatIC help?
 - What are the challenges in these areas?