

# Interview Guidelines : Fresche Legacy first observations

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## Abstract

Guidelines for interviewing sessions at Fresche Legacy for the purpose of assessing the industrial perception and expectations about Model-Driven Engineering. This should place in perspective the relation between Model-Driven Engineering and large scale industrial projects.

## 1 Pre Interview

Setup with the team coordinator what personnel is available for interviewing.

Setup meeting times and schedule.

Make sure the required equipment is available before interviewing procedures start.

1. Voice recorder for in person interviews
2. Audio recording software for remote interviews
3. Dedicated note pad (this means all interview information is localized and it becomes easier to manage anonymity and confidentiality)
4. Working pen

## 2 Interview Setup

Check equipment for malfunctions.

If interview is in person, make sure there is water.

Have extra pen.

Immediately before interview begins, start recording equipment.

## 3 Interview Disclaimers

Start with small introduction.

Present the objectives of the interview are ”to assess the barriers to adoption of Model-Driven Technologies and Methods”, the data collected with the interview will be analyses for general tendencies and new perspectives (this might be too much of a lead on). Explain that we are researching the tools, not evaluating the users. Explain that interview is anonymous and confidential. The results

of this research will be used in a research paper at a Model-Driven Engineering Conference Industry track (MODELS 2016), and will only contain anonymous data. Also that data, will not violate any Fresche Legacy Intellectual Property. There will not be any information leaked in the final paper that may jeopardizes the unique/proprietary knowledge and methods at Fresche.

Ask permission to record the interview.

Ask if there are any questions or comments about the interview process.

## 4 Interview Questionnaire Guidelines

These are the guidelines for questions about the topics that should be addressed during the interview.

### 4.1 Pre Model-Driven Engineering adoption Questions

1. What type of development did you do before using Model Driven Engineering? (enumeration)
2. How did you come to know about Model-Driven Engineering? (open)
3. What led you to use Model-Driven Engineering? (open)
4. What did you expect to achieve from Model-Driven Engineering concretely? (open)
5. Any initial comments?

### 4.2 Model-Driven Engineering Use Questions

1. What Model-Driven Engineering tools do you use? (enumeration)
  - (a) What do you use it for? (open)
  - (b) What do you think of the tool? (open)
  - (c) Initially, what were your expectations of the tool? (open)
  - (d) What were the challenges of using this tool? (open)
2. Do you feel this approach had any impact in the development process? Did it improve or worsen productivity in terms of time and effort to produce results ? (open)
3. What is your main source of knowledge and information about Model-Driven Engineering and its tools? (enumeration)
4. How is Model-Driven Engineering integrated in your development workflow? (open)
5. What difficulties did you have in adapting to Model-Driven Engineering? (open)
6. What do you think of the interoperability between Model-Driven Engineering tools?

- (a) Do you think the way the tools interoperate by passing model files between them works well ?
7. What do you think of the interoperability between Model-Driven Engineering and non-Model-Driven Engineering infrastructure and tools? (open)
    - (a) What challenges did you encounter?
    - (b) How much extra work was required to do so?
    - (c) Do you see advantages or drawbacks of connecting tools in this way? (open)
  8. Any additional comments at this point?

### 4.3 A Posteriori Questions

1. Do you use Domain Specific Modeling Languages, such as something custom made to address a specific problem, or General Purpose Modeling Languages, such as UML or BPMN? (open)
  - (a) Why did you choose this approach? (open)
  - (b) What advantages led to use this approach? (open)
  - (c) Do you feel there would have been any benefits in using the other approach?
  - (d) In retrospect, do you still think the approach taken was the best?
2. Would you use Model-Driven Engineering again? (open)
  - (a) Would you suggest it to other development teams, or would you keep it as a focused complementary section of development? (open)
  - (b) What do you feel is missing or you would change in Model-Driven Engineering to make it more suited to your needs? (open)
  - (a) So you would not take this approach again. Why? What would make you change your mind? (open)
3. Do you feel you have liberty at Fresche Legacy to choose the best approach (Model-Driven Development vs. traditional development), or is it imposed on you? (open)
4. What development environment and resources do you use in your development, what operative system, hardware, and additional software do you use ? (open)
5. What kind of resources will the production tools have, will it run in a dedicated machine, what system and additional software you expect to be running alongside the developed modeling tools? (open)
6. What do you feel are the limiting factors of Model-Driven Engineering? (open)

7. (if not already addressed in 2(a) )What do you want most out of MDE that is still missing? (open)
8. Any final comments? (open)

## 5 Interview Wrap-up

Thank the interviewee for his time. Stop recording equipment. Make directly notes about the interview, including important things to look for when analyzing the recording. Secure interview notes (as simple as changing page before another interview, making sure there are no loose notes left behind, etc) If more interviews are being conducted, re-setup the space.

## 6 Analysis

Go through the interviews.

If necessary transcribe recordings.

Quantify close-ended questions through coding. Take additional notes of open-ended questions. Mark recurring words/answers.

Make intersection between answers among all participants. Go through the topics and make crosscut summaries of the interviews (a more subject by subject recollection).

Review summaries against the interviews.

Draw conclusions on each of the focus topics.