**Revit Family API Webcast – Questions and Answers**

**Thursday, July 23, 2009 11:00:00 AM GMT-4:0**

**Question:** Will a recording of this presentation be provided to participants?

**Answer:** Yes, we'll be posting all the materials to the ADN site and DevCenter under the schedule page.

**Question:** Can you have Revit select a template based on the type of content you want to create?

**Answer:** you can use NewFamilyDocument method with the template name.

**Question:** // Language independent check for checking the loaded template Category cat=doc.Settings.Categories.get\_Item(BuiltInCategory.OST\_Windows); if (doc.OwnerFamily.FamilyCategory.Id.Value != cat.Id.Value) { message = "Please make sure you opened a template of Window."; return IExternalCommand.Result.Failed; }

**Answer:** This looks ok, what is the question in this?

**Question:** In the samples the check isn't language independent.

**Answer:** Good suggestion, that would be the best practice. We shall try to get that incorporated.

**Question:** Where do we get the labs?

**Answer: W**e'll post them with the recording.

**Question:** Can u recommend a video tutorial for Revit step by step programming?

**Answer:** Yes, please go through the DevTV on Revit Programming available on the ADN website and the Developer Center under Revit.

**Question:** Can you please give the link to Dev TV as I was not able to catch the link in the slide.

**Answer:** If you log into the ADN website, you can search for it in the Revit DevTV and since the ppt will also be posted with the recording you can get access to all the links at a later date too. If you are not an ADN member, look under Developer Center, Revit.

**Question:** Is it possible to embed code into a family?

**Answer:** Can you please elaborate by what you mean by embedding code in family? You can set up external commands where you code will run in family editor once accessed from the Add-in in the user interface

**Question:** I mean to create more complex formulas by coding so I can create "intelligent families" for my users.

**Answer:** Yes, we can add more complex formula too.

**Question:** Does the API provide any control over the analysis wire of a column for example?

**Answer: D**o you mean to create an analytical model? Analytical model is in the template.

**Question:** I want to join ADN but I don’t have a full time software developer on staff (I am alone) ...can I still join ADN? So I can learn how to program in Revit?

**Answer:** Yes you sure can, for more details please check on the Autodesk website at http://usa.autodesk.com/adsk/servlet/index?siteID=123112&id=723353

**Question:** The example of intelligent is for example to have families for structural pre-design which will change interactively as long as the user changes the model...

**Answer:** You can create quite complex family like we have shown in the ppt with cranes and play ground set. You may want to check the AUGI discussions by the family UI experts.

**Question:** i notice you are using visual studio or something along those logos (partly hidden so i only see the logo)....can you please recommend the specific programming language and software to use in programming Revit? as i am confused whether to study VB, C++, C# etc...it would be very helpful if you can point me to the right direction so i can begin my programming in Revit.

**Answer:** Revit has .NET API and so you can work with any of the .NET compliant languages like C# or VB.NET. C++ is not supported. Please have a look at the documents in the Revit API SDK for more details on the programming environment and languages

**Question:** I've created very complex families like the crane but the Revit performance decreases a lot.

**Answer:** Basically, usage of API follows UI. So the result will be the same. One option might be that, you can create more canned one (use less parameter) on the fly. It might reduce complexity of computation. In general we are working on improving performance, too.

**Question:** Is there a free video lesson in DEV TV on Revit step by step programming?

**Answer:** Yes, DevTV on Revit API programming is free of cost and you can also download it from http://usa.autodesk.com/adsk/servlet/index?siteID=123112&id=2484975

**Question:** How is the procedure to work with in-place families?

**Answer:** If you are talking about using API, in-place family is not supported by the family API, yet.

**Question:** Yes, I was talking about work with API and in-place families.

**Answer:** Okay, then. It will be something we will need to look forward for in future releases.

**Question:** Thanks a lot for the presentation. It's always a pleasure to hear you.

**Answer:** You’re welcome. Glad to hear it! Have a nice day.

**Question:** Is there a way to modify system families like walls using Revit programming?

**Answer:** Not yet. This is also for future.

**Question:** Thank you very much!

**Answer:** Thank YOU!! Have a nice day.

**Question:** Hope to see more presentations from you! Great!

**Answer:** Thank you!

**Question:** GREAT PRESENTATIONS! HOPE YOU WILL CREATE MORE AND MORE VIDEO TUTORIALS ON REVIT PROGRAMMING FROM BEGINNERS TO ADVANCED STUFF!

**Answer:** Thank you. We'll do our best.