Why does SHGetKnownFolderPath return E_FAIL for a known folder?

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A customer reported having problems with the SHGetKnownFolderPath function. I've left in the red herrings.

The reason the call fails has nothing to do with Windows 7 or the token. The call fails because **FOLDERID InternetFolder** is a virtual folder—there is no path in the first place!

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The reason is that the folder you are requesting is a virtual folder (KF_CATEGORY_VIRTUAL). Virtual folders don't exist in the file system, so they don't have a path. SHGetKnownFolderItem should work.
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The customer appears to have misinterpreted this response in a way I wasn't expecting (but which sadly <u>I've seen before</u>):

Um, no, that makes no sense at all. KF_CATEGORY_VIRTUAL is a KF_CATEGORY value, but the second parameter to SHGetKnownFolderPath is a KNOWN_FOLDER_FLAG. You can't just combine unrelated values like that. It's like <u>adding 3 grams to 12 meters</u>.

And second, the KF_CATEGORY_VIRTUAL enumeration isn't something that you pass in to "override" anything. The point is that FOLDERID_InternetFolder is a virtual folder: It has no path, so if you try to ask for its path, you'll just get an error back because the thing you're looking for simply doesn't exist.

I never did figure out what this customer was trying to do. Maybe they figured, since they can't <u>download the Internet</u>, they could at least try to do a <u>FindFirstFile</u> on it.

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