For Blair Bitonti, Central Audio Software Engineer at Activision, sophisticated audio is an integral part of the gaming experience. “Audio helps tell the story. In video games, we have the opportunity to immerse players in new and different worlds, but, to do that effectively, we need quality audio and surround sound. There is nothing else that can get a player immersed in a game like audio.”

This is certainly true at Blue Fang Games where they are using Wwise on their current title. Says Douglas DaSilva, Associate Software Engineer at Blue Fang Games, “On this new title, sound will play a big part in selling the illusion of the worlds that we’re creating. Having a sophisticated audio design for our games allows us to create a game world that feels more alive.”

Pandemic Studios in Brisbane, Australia, takes the idea of audio as an integral component in story-telling very seriously. In fact, according to Chip Bell, Audio Programmer at Pandemic, “Sophisticated audio is essential for our current title. We’re going for a very rich, emotional experience, and a lot of work is being put into meshing sound design with editorial design.”
“Sophisticated audio is extremely important for our game production,” says Scott Bilas, Senior Engineer at Loose Cannon Studios. “For us, it is not something that we hold off on until the last second. It is one of the key features of our games, and this is one of the reasons why we decided to use Wwise.”

Working Autonomously Leads to Greater Collaboration

Since the ability to develop sophisticated audio is a key consideration in the production of successful titles, it makes sense that these developers have turned to the middleware solution that gives them the most control over the creative process. One of the ways that Wwise allows studios to create more sophisticated immersive audio is by changing the relationship between sound designers and audio programmers.

Using Wwise allows the two sides of audio development to work more autonomously, which increases the creative potential of both groups. For example, according to DaSilva, “Because Wwise allows for greater control over the final mix without having to change the game code itself, our sound designer can play around with ideas and experiment without having to wait for engineering support to hear the results. Having this time to experiment allows us the luxury of more time to polish the game’s audio.”

Further, DaSilva says that, “By using Wwise, designers and programmers are able to collaborate easily and efficiently, allowing time to focus on implementing advanced sound features comfortably within the game’s development cycle.”

In essence, Audiokinetic has created a new work paradigm in which sound designers are free to test out their creative designs without having to lean too heavily on the audio programmers. This means that audio programmers are able to spend more of their time creating unique assets that take their game audio to new places.

Wwise Eases the Burden of Repetitive Programming

In addition to providing a new, more collaborative relationship between sound designers and audio programmers, Wwise also reduces the amount of repetitive programming necessary for sound development. Because Wwise takes care of the low-level programming, audio programmers are no longer required to do the same basic work over and over. This is good news for programmers like Scott Bilas who prefer to focus on more creative work. Says Bilas, “I like working in audio, but I don’t like doing boring work, and, thankfully, Wwise takes care of all of that for me.”

As Bilas explains, “Wwise releases audio programmers from engine development. On our current project, we have spent much less time than I ever would have expected engineering audio. And, we are producing more stuff that is of better quality. Wwise has freed me to work on other things and gives me more time to interact at a much higher level.”
Damon Osgood, Principal Lead Programmer of Gameplay at BioWare Austin, appreciates how using Wwise has simplified his development process. “Wwise hides the complexity of the audio environment from me. So, for example, I can trigger a single event or state change, regardless of how complex the sound program is. This means that I spend less time on programming audio hooks and more time on other systems with absolutely no sacrifice to our audio quality or complexity.”

Greater Possibilities for Sophisticated Audio

With a simpler, more collaborative development process, game studios are seeing even greater potential for sophisticated audio. Says Chip Bell, “It’s amazing that, when you have the time to do more work, you realize just how much there is to be done. If you no longer have to worry about the basic implementation, you are freed up to explore where you can take your audio. There are countless benefits.”

While Pandemic is looking at realistic dialogue for their NPCs, other development teams at other studios are taking advantage of the new workflow to create unique and differentiating assets for their games, including more advanced audio systems like interactive music and complicated dialogue. And, of course, everyone is focused on shipping their games on schedule with the most sophisticated audio assets possible.

One such benefit for Pandemic is the possibility of creating more realistic dialogue for their NPCs. According to Bell, “Our AI systems will allow more complex NPC interactions, meaning that, where it suits the action of the game, NPCs will be able to sustain contextually accurate conversations. In the end, we could end up with tens of thousands of pieces of dialogue for our game.”

According to Scott Bilas, switching from another audio tool to Wwise helped to keep Loose Cannon’s current title on schedule and allowed for more sophisticated audio. “Wwise has helped us get through several milestones so far, and it didn’t take much work. Using FMOD, it would have taken a lot more work, and there are definitely things that we have done here that we wouldn’t have managed with any other middleware. I am a big fan.”