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## Silicon Studio's "Enlighten" global illumination adopted by Online RPG “PHANTASY STAR ONLINE 2 NEW GENESIS”

Tokyo, Japan, (June 9, 2021) – Silicon Studio Corporation; middleware and technology developer, focusing on entertainment, gaming, automotive, video, architecture and other industries, is pleased to announce that the online RPG “PHANTASY STAR ONLINE 2 NEW GENESIS (PSO2:NGS)”, developed and operated by SEGA Corporation, will utilize Enlighten global illumination.



Adopted for “PSO2:NGS”, Enlighten is a real-time global illumination (GI) middleware. Global Illumination calculates light which is reflected or absorbed by materials or objects within scenes to accurately simulate both indirect and direct lighting.

“PSO2:NGS” is the latest game in the “PHANTASY STAR ONLINE” series, and the sequel expansion to “PHANTASY STAR ONLINE 2 (PSO2)”, one of the largest online RPG titles in Japan. “PSO” is commemorating its 20th anniversary with refurbished gaming systems and graphic engines. Its “vision of the world”, “gaming systems”, “graphic engines”, and “character creation systems” have been drastically redesigned on an impressively large scale.

“Enlighten” contributes to “PSO2:NGS” by graphically enhancing the massive open world as the environment changes to beautifully show the passage of time of day, time itself, and weather variations.

### Official comment from SEGA

“PSO2 New Genesis” is our ultra large-scale update of “PSO2”. We decided to integrate “Enlighten” for our drastic graphic renewal. Thanks to the power of real-time global illumination, we successfully addressed various types of environmental changes such as day/night or climate and added a variety of light expression to “Planet Harukotan”. We will continue to use this “Enlighten” for future updates as well so that we can amuse our users.

“NGS” Development Team

**“PHANTASY STAR ONLINE 2 NEW GENESIS” Screenshots**



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Title	PHANTASY STAR ONLINE 2 NEW GENESIS (PSO2:NGS for short)
Platform	Xbox One, Windows 10 (Microsoft Store), Steam, Epic Games Store.

Publisher and Developer	SEGA CORPORATION
Genre	Online RPG
Release Date	June 9, 2021
Copyright	©SEGA
Website	<a href="https://pso2.com/">https://pso2.com/</a>

### **About Enlighten**

"Enlighten" is a high quality real-time global illumination technology used for the game, cinematic, entertainment, architectural, and many other industries. The technology can efficiently calculate a large amount of mathematical processes to generate and maintain beautiful high-quality images through the usage of light maps, spherical harmonic probes, and reflection captures.

<https://www.siliconstudio.co.jp/middleware/enlighten/en/>

Enlighten for Unreal 4 is available for the following platforms:

Nintendo Switch™, PlayStation®4, PlayStation®5, Xbox One, Xbox Series, Stadia™, Microsoft Windows

Enlighten SDK is available for the following platforms:

Nintendo Switch™, PlayStation®4, PlayStation®5, Xbox One, Xbox Series, Stadia™, Microsoft Windows, Android™, iOS

\*Enlighten also supports VR development

### **About Silicon Studio Corporation**

Silicon Studio, a Japan-based game engine and middleware company, develops and provides advanced technologies such as "YEBIS" post effects, "Enlighten" real-time global illumination, and "Mizuchi" real-time rendering to major game and entertainment production studios worldwide. These technologies have helped to bring high quality graphics to a large number of successful AAA titles.

<https://www.siliconstudio.co.jp/en/>

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\* "PlayStation" is a registered trademark of Sony Interactive Entertainment Inc.

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