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Intelligent Wave Inc.

News Release

Intelligent Wave Inc. (IWI) Releases “IP Flow Monitoring Solution” Aimed at Broadcasting Industry

Intelligent Wave Inc. (Head Office: Chuo-ku, Tokyo / CEO: Tsukasa Iseki / “IWI” hereinafter) announces its successful development and launch of “IP Flow Monitoring Solution” to address issues in installing Internet Protocol on broadcast facilities.

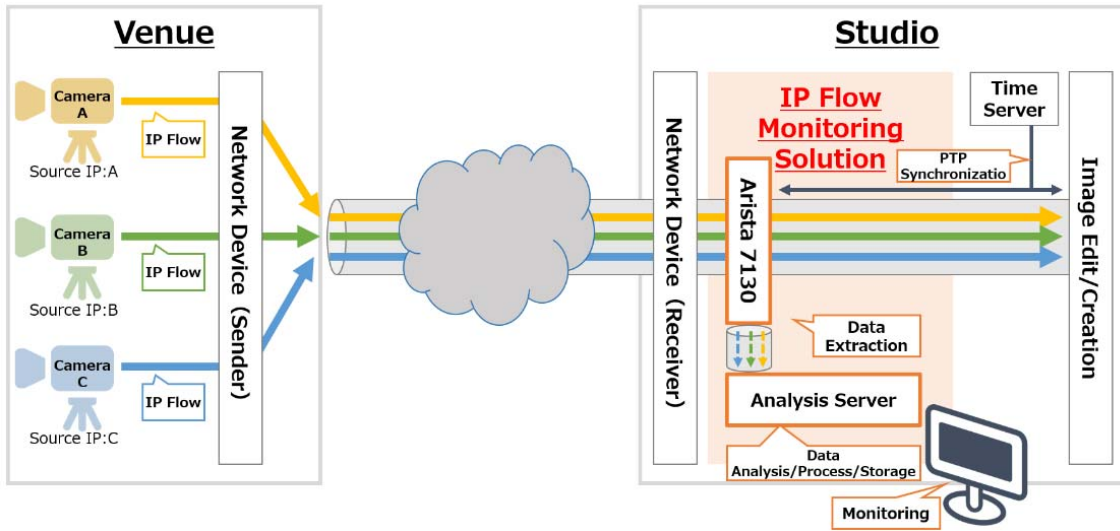
<Background Information on the Solution Development>

In recent years, broadcasting industry has been keen to promote 4K/8K broadcasting, which has caused an urgent priority of Internet Protocol installation on broadcast facilities. This trend that revolutionizes broadcasting industry represents a global change that major TV stations or image distribution business, both Japan domestic and abroad, are currently working on. 4K/8K broadcasting requires IP-installed broadcast equipment which is different from conventional SDI-based facilities. In addition, a totally different broadcast signal monitoring measure becomes indispensable for the new IP-installed broadcasting equipment in order to maintain and even improve the quality of broadcasting. Under these circumstances, IWI has developed IP Flow Monitoring Solution with utilizing its sophisticated technology acquired through its long-term experience with financial industry where precise high-speed data distribution is critical.

<Feature of the Solution>

IP Flow Monitoring Solution enabled the number of port aggregation which can never be achieved by the existing network switch mirror port. This has become possible by utilizing FPGA implemented within “Arista7130”, a network device provided by Arista Networks, Inc, and by extracting only the necessary information from the packets within the switch. As for data analysis after the extraction, IP Flow Monitoring Solution identifies the data type (SMPTE2022-20/ SMPTE 2110-30/ SMPTE 2022-6/PTP/IGMP etc.) and applies high-speed data analysis through “FES (Fast Event Streamer)”, an IWI’s unique CEP engine, and then processes those data into the one that is most suitable for overall trend analysis. Moreover, this IP Flow Monitoring Solution is the solution that focuses on stream (IP flow) monitoring. It can visualize, through PTP synchronization with time server, not only bit rate or packet drop within every stream, but latency or jitter within every stream received.

*The IP Flow Monitoring Solution was developed in cooperation with a Japan domestic broadcasting company and is now patent pending filed by IWI and the company.



<Corporate/Contact Information>

Intelligent Wave, Inc.

Kayabacho Tower, 1-21-2, Shinkawa, Chuo-ku, Tokyo 104-0033, Japan

3rd System Development Division

Tel: +81-3-6222-7022 mail: eom@iwi.co.jp