

【MIRAIT ONE Corporation】**Implementation of PoC of Congestion Visualization on High-quality Network Using New “DX Wi-Fi®” and 5G at Rakuten Seimei Park Miyagi**

Major telecommunications construction company MIRAIT ONE Corporation (head office: Koto-ku, Tokyo; President and Chief Executive Officer: Toshiki Nakayama; “MIRAIT ONE”), Rakuten Baseball, Inc. (head office: Sendai-shi, Miyagi; President: Yosuke Komeda; “Rakuten Baseball”), NTT Data Kansai Corporation (head office: Osaka-shi, Osaka; President: Masao Furuta; “NTT Data Kansai”), and GranBright Consulting (Head office: Yokohama-shi, Kanagawa; Representative: Hiroaki Noguchi; “GranBright”) will jointly conduct a proof of concept (PoC) at the Rakuten Eagles Fan Festival 2022 to be held at Rakuten Seimei Park Miyagi on November 23, 2022 for the purpose of establishing a high-speed, high-capacity and low latency broadband network using the new “DX Wi-Fi®” and 5G, aggregating video from cameras installed in multiple locations over a wide area and using AI to analyze and display congestion and provide guidance to further increase the convenience of the stadium. Rakuten Mobile, Inc. (“Rakuten Mobile”) will provide the 5G network infrastructure for the PoC.

A high-quality hybrid wireless network made using the new “DX Wi-Fi®” and Rakuten Mobile’s 5G technology will be used for the wide-area high-speed wireless network used in the PoC.

“DX Wi-Fi®” is a product handled by NTT Data Kansai, which is sold, designed, integrated and maintained by MIRAIT ONE. The new “DX Wi-Fi®” supports Wi-Fi6 (IEEE802.11ax), and not only enables the creation of higher speed network environments than the original product enabling the creation of wide-area Wi-Fi environments over distances in excess of 500 meters, but is also resilient to line congestion and enables communication without load even when multiple devices are connected simultaneously. Video from cameras installed in multiple locations over a wide area in the stadium will be transmitted using this stable hybrid wireless network.

The aggregated video will be analyzed in real time using the WaitTime*1 AI congestion analysis solution on an edge server. It automatically identifies lines based on video of the restaurants surrounding the stadium, and estimates the number of people in the lines and the wait time. It also analyzes congestion at outdoor eating spaces and restrooms where congestion is anticipated. This PoC will verify the precision of these congestion analysis results, and verify how a smart stadium should provide the congestion information and implement operations such as guidance to enable visitors to enjoy themselves in comfort without stress.

MIRAIT ONE will proceed to consider full-scale implementation with Rakuten Baseball based on the results of the PoC, and plans to offer stadium solutions made up of networks and services utilizing the networks that increase the value of stadiums not limited to ballparks.

About MIRAIT ONE Corporation

MIRAIT ONE Corporation was launched on July 1, 2022 through the integration of MIRAIT Holdings Corporation, MIRAIT Corporation, and MIRAIT Technologies Corporation. MIRAIT ONE has established “co-creating an exciting future through challenges and technology” as its purpose (significance of existence), and is engaged in the resolution of issues faced by customers and society and regional revitalization by promoting initiatives such as urban development and regional development, corporate DX and GX, green business and global business based on the technical capability cultivated until now in telecommunications facility construction and the civil engineering business.

About Rakuten Baseball, Inc.

Rakuten Baseball, Inc. operates the Tohoku Rakuten Golden Eagles, which became the first team to be created in Japanese professional baseball in 50 years since it was established in 2004. The team has been built with roots in Tohoku and supported by fans, and won its league and the Japan Series championship in 2013. Rakuten Seimei Park Miyagi, which is the home ground, is evolving every day as a world-renowned ballpark in Tohoku, implementing measures ahead of the world’s professional sports industry such as becoming the first fully cashless stadium in Japan, implementing dynamic pricing of tickets, and installing a Ferris wheel and a merry-go-round in the stadium.

About NTT Data Kansai Corporation

NTT Data Kansai Corporation provides total IT services ranging from drafting strategy to planning, design, operation and maintenance including core systems, cross-industrial social infrastructure services and DX solutions mainly in the corporate sector, public sector and financial sector. “DX Wi-Fi®” is a Wi-Fi access point that the company began to handle in 2019. It is an overseas product that uses antenna performance incorporating patented technology to enable coverage of longer distances and wider areas than in the past with a single unit, and NTT Data Kansai is the only company handling the product in Japan.

About GranBright Consulting

GranBright Consulting is a partner considering optimal solutions from the perspective of IT solutions centered on digital, mobile and social with the aim of providing new inspiration and accelerating business in sports and entertainment. The company has partnered with US-based WaitTime to promote WaitTime’s entry into the Japanese market.

*1 About WaitTime

WaitTime is an advanced AI-based congestion alleviation solution provided by WaitTime, which is headquartered in Detroit, USA. It is a solution that realizes the alleviation of overcrowding by using AI to perform real-time analysis of lines and congestion in locations where many people visit such as stadiums, and providing easily understandable information for patrons on smartphones and digital signage. In particular, it contributes to the shortening of waiting times and maximization of sale opportunities by identifying lines such as those at restrooms and stores, and guiding patrons to less crowded ones. Past examples of implementation are increasing globally centered on large-scale sporting facilities including an American professional basketball (NBA) arena and a multipurpose stadium with a capacity of 80,000 people in Australia.