

Event Wi-Fi

# Powering Large Scale Event with Seamless Wi-Fi

Uninterrupted Connectivity,  
Unforgettable Moments



# Background

This high-profile event showcased HFCL's ability to deliver seamless connectivity in challenging, high-density environments. Our Wi-Fi 6 solution supported thousands of users across a vast venue, enabling uninterrupted sharing and streaming throughout the celebration. We're proud to have demonstrated that our Made in India technology can meet world-class standards, contributing to the event's resounding success.

**Bhuvnesh Sachdeva**  
Senior Vice President (Communication)

Pre-wedding celebrations have become the norm, but one recent gala in India raised the bar, pushing the boundaries of what constitutes a "big fat Indian Pre-Wedding." This unprecedented event created a global buzz, captivating audiences worldwide with its grandeur and opulence. Hosted by one of India's most influential business families, this three-day gala, brought together the crème de la crème of society, including business tycoons, politicians, celebrities, and dignitaries from across the globe.

Beyond the elite guests, the pre-wedding bash captured the imagination of the masses, with citizens eagerly awaiting updates through news channels, social media, streaming platforms, and every available medium. With guests from diverse backgrounds and nationalities converging in a rural setting, ensuring seamless internet connectivity was a paramount concern. The hosts recognized the importance of offering a world-class experience, where guests could stay connected, share moments, stream content, and access online entertainment without any disruptions.

As guests arrived, they were greeted with a connectivity experience that rivaled the luxury of the event itself. Whether they were sharing photos and videos on social media, streaming live updates to their loved ones, or accessing online entertainment, the high-performance access points ensured a smooth and uninterrupted experience. Guests marveled at the seamless connectivity, feeling as though they had a dedicated router catering to their individual needs.

The experience was akin to having a personal network, with no dead zones or disruptions, allowing them to fully immerse themselves in the grandeur of the celebration. This exceptional connectivity was made possible by HFCL's access solution, showcasing the company's expertise in providing high-density, reliable wireless solutions for large-scale events.

# Challenge

The key challenge in providing reliable connectivity for this high-profile pre-wedding celebration was supporting seamless connectivity for an extremely large number of devices - 8000 unique devices - over the entire 3-day event. The network infrastructure needed to be designed and deployed to handle the high density of users and ensure reliable connectivity without any disruptions.

# Solution

The client chose HFCL over international access providers showcasing their inclination towards Make in India and trust that they have on our long going partnership. To provide seamless connectivity for the high-profile pre-wedding celebration, a comprehensive Wi-Fi 6 network solution was designed and deployed. The solution leveraged the advanced features and capabilities of Wi-Fi 6 technology to meet the challenges of the event. A thorough site survey was conducted to assess the venue's layout, obstacles, and potential interference sources. Based on the survey results, a detailed network plan was created, determining the optimal placement of the 204 Wi-Fi 6 outdoor Access Points to ensure blanket coverage across the area.

The Wi-Fi 6 Access Points were configured specifically for the event's requirements. This included setting up SSIDs, security protocols, and QoS policies tailored to the expected device types and traffic patterns. The configuration was optimized to handle the anticipated high device density and bandwidth demands. The placement took into account factors such as potential obstructions, and areas of high foot traffic. By carefully positioning the Access Points, a seamless "network blanket" was created, ensuring strong and consistent coverage across all areas.

To accommodate the diverse connectivity needs of the guests, bandwidth management techniques were implemented. This included allocating dedicated

bandwidth for critical applications, such as live streaming and video conferencing, while ensuring sufficient bandwidth for general web browsing and social media usage. Throughout the event, the network was actively monitored using advanced network management tools. Real-time insights into network performance, device connectivity, and potential issues allowed the IT team to proactively optimize the network. Any connectivity issues were swiftly identified and resolved, ensuring a seamless experience for the guests.

The Wi-Fi 6 Access Points used in this deployment feature advanced Multi-User Multiple-Input Multiple-Output (MU-MIMO) technology, enabling them to simultaneously communicate with multiple devices, significantly increasing network capacity and efficiency. Deployed outdoor Access Points offered improved throughput and the support of 2x2 MU-MIMO enabled increased data rates and faster connections. With this feature in line guests were able to enjoy seamless streaming, quick downloads, even in crowded environments.

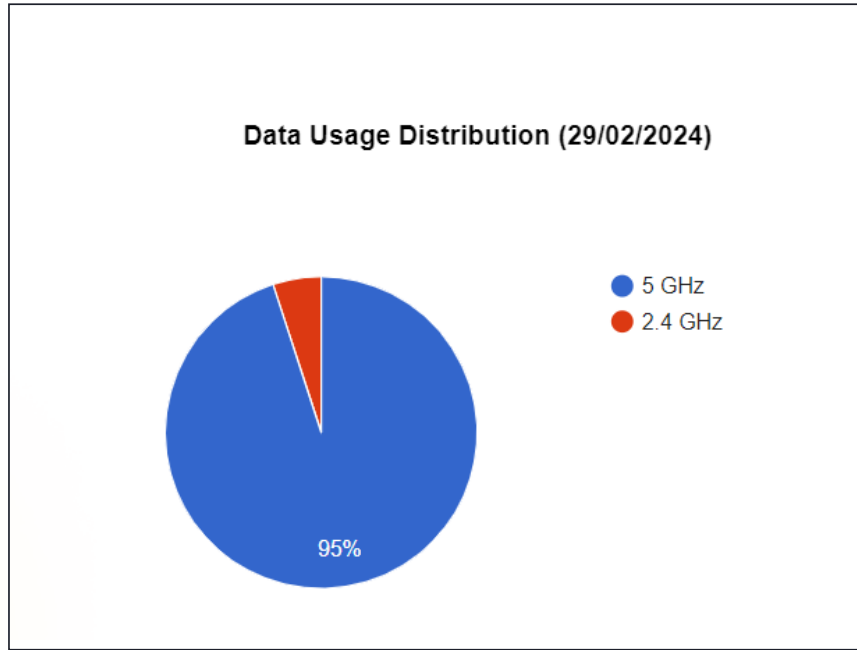
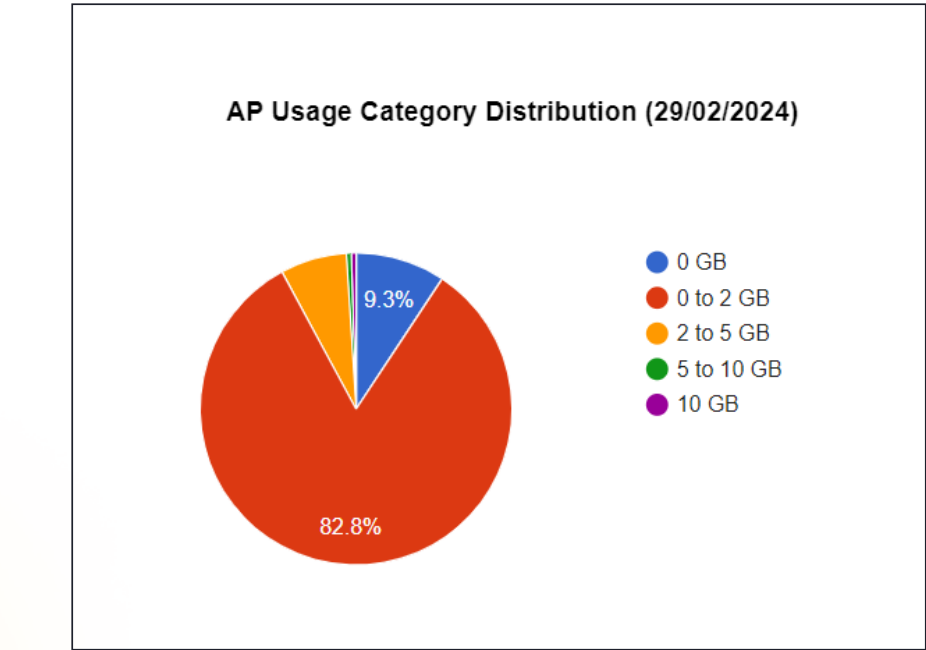
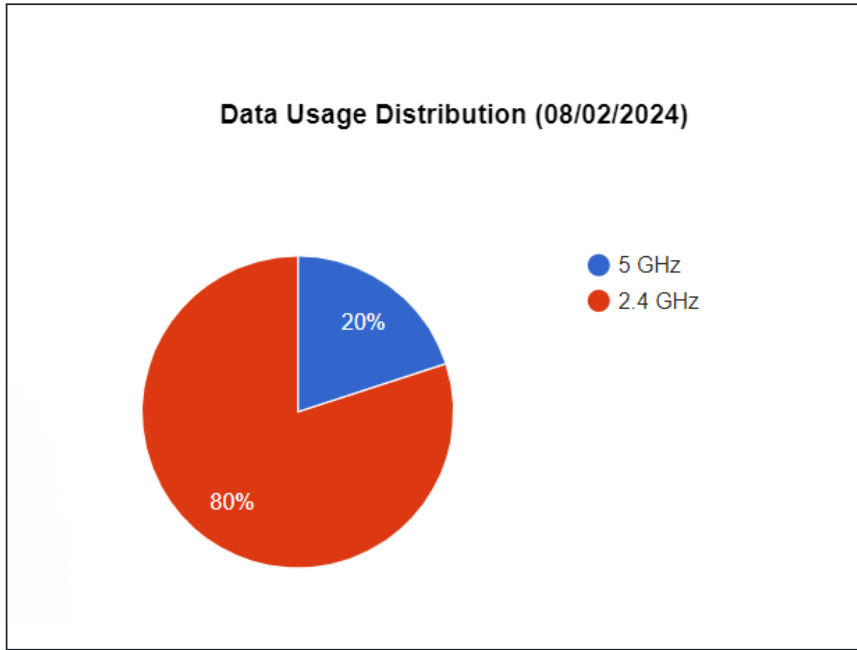
## Indoor Wi-Fi



Wi-Fi 6  
Access Point

# Data Summary

Day	Total APs	Total Data (GB)	5 GHz Data (GB)	2.4 GHz Data (GB)	Total Unique Clients
Main event day	204	123.25	117.30	5.95	8,007
Pre event	73	46.06	9.35	36.71	6,590



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# Result

- 01** Seamless connectivity provided for 8,000 unique devices over a 3-day event
- 02** Effective coverage across multiple venues
- 03** High-density user support with no reported connectivity issues
- 04** Successful implementation of Make in India initiative by choosing HFCL over international providers

# Conclusion

The successful deployment of high-performance Access Points at this grand pre-wedding bash showcased the importance of robust and reliable connectivity in creating unforgettable experiences. By providing a seamless network blanket, the hosts ensured that their guests could stay connected, share moments, and indulge in online entertainment without any limitations, solidifying the event's reputation as one of the most extravagant and well-executed celebrations in recent times.

