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A Two-Tier PV Gateway for Channel Access from J-PARC Office Network to the Accelerator Control Network

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Over the past decade, J-PARC Main Ring have become more sophisticated and more stable operation is required. Along with this, demands arose from experts of equipment and users that acquiring detailed and real-time information on the apparatus from the office LAN. On the other hand, a two-layered firewall quarantines the accelerator control network so that any manipulation of accelerator equipment from the office network shall be prohibited, despite being intentional or not. An one-way gateway system was constructed which allows Channel Access from the office network to accelerator control network through the firewall.

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