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JINR Grid Tier-1@Tier-2

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The JINR grid infrastructure is a main component of the JINR Multifunctional Information and Computing Complex (MICC). There are two grid-sites: the Tier-1 for the CMS experiment at LHC and the Tier-2 which provides support to the virtual organizations (VOs) concerning the JINR participation in experiments at LHC (ATLAS, ALICE, CMS, LHCb), FAIR (CBM, PANDA), and other VOs (NICA, STAR, COMPASS, NOvA) within large-scale international collaborations with JINR researchers. The grid resources of the MICC JINR are a part of the global Worldwide LHC Computing Grid (WLCG) infrastructure, which was formed to support the LHC experiments.. Up to 2015 the main element of the JINR grid infrastructure was the Tier-2 center, one of the best resource centers of the Russian Data Intensive Grid (RDIG) and a part of the global grid infrastructure of WLCG and a member of the European EGI infrastructure. The official inauguration of the JINR Tier-1 for the CMS experiment in March 2015 marked a significant enhancement of the JINR grid computing infrastructure. This was an important contribution to the WLCG infrastructure. During past two years it was tuned and upgraded in order to cope with increasing amount of data coming from CMS experiment. The present status of the JINR grid infrastructure and plans for future development will be presented.

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