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Evolution of Monitoring System for AMS Science Operation Center

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This paper introduces the evolution of the monitoring system of the Alpha Magnetic Spectrometer (AMS) Science Operation Center (SOC) at CERN.

The AMS SOC monitoring system includes several independent tools: Network Monitor to poll the health metrics of AMS local computing farm, Production Monitor to show the production status, Frame Monitor to record the flight data arriving status, and SOC monitor to check the production latency.

Currently CERN has adopted Metrics as the main monitoring platform, and we are working to integrate our monitoring tools to this platform to provide dashboard like monitoring pages which will show the overall status of SOC as well as more detailed information. A diagnostic tool based on set of expandable rules and capable to automatically locate the possible issues and provide suggestions for the fixes is also being designed.

Primary Keyword (Mandatory)

Monitoring

Tertiary Keyword (Optional)

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Primary author: SHAN, Baosong (Beihang University (CN))

Co-authors: EGOROV, Alexander (Massachusetts Inst. of Technology (US)); ELINE, Alexandre (Massachusetts Inst. of Technology (US)); DEMAKOV, Oleg (Massachusetts Inst. of Technology (US)); SHI, Renli (Southeast University (CN)); CHOUTKO, Vitaly (Massachusetts Inst. of Technology (US))

Presenter: SHAN, Baosong (Beihang University (CN))

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