LabVIEW Interface of MADOCA II with Key-Value Stores in Messages

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Introduction

- **MADOCA II**
  - Message oriented Control framework

- Used **OMQ** and **MessagePack**

- Applied to SPring-8 and SACLA DAQ in 2013
  - Multi-platform (include Windows)
  - Large data can be attached in a message
  - Distributed controls over ~500 hosts

- **LabVIEW Interface**
  - Redesigned for easy-to-use
  - Key-Value Stores for Data transfer
Client application with MADOCA II LabVIEW

Send VOC="put/camera/init"

Receive C="OK"
Camera Image Viewer with MADOCA II LabVIEW

Easily programmed with simply decomposed VIs

Application with MADOCA II LabVIEW

Message Server

Hamamatsu ORCA-Flash 4.0
4 Mpixel size

Poster-ID WEM305