NICT National Institute of Information and Communications Technology

AUTEX *Seeds of success* オーテックス株式会社

SLR configuration and data management software (Debit) using WEB and relational Data Base

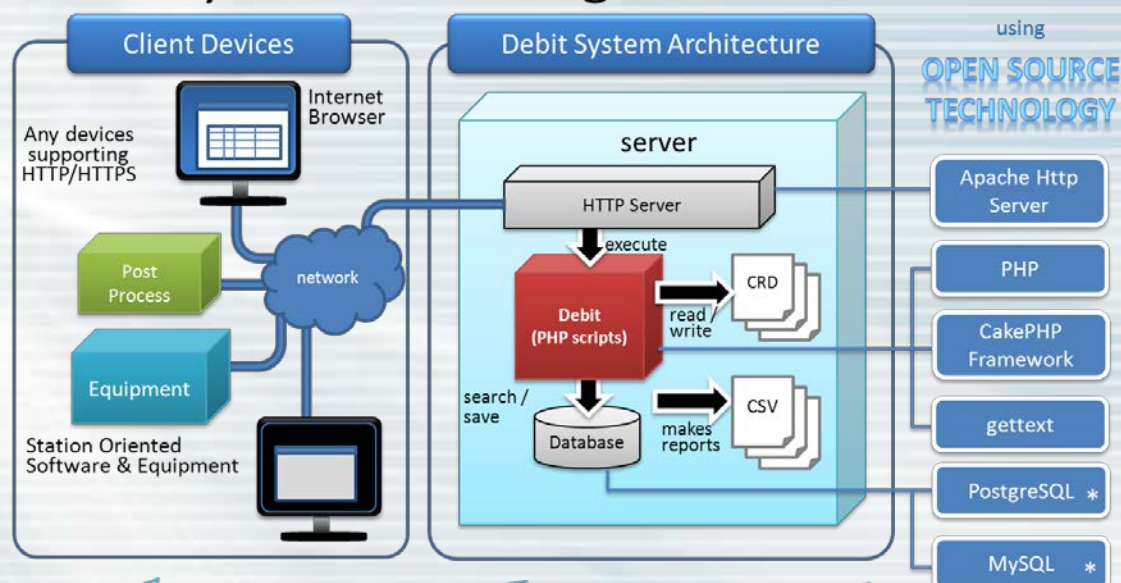## H.Kunimori[1], R.Iwafune, and K.Ohi[2]

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Abstract

Koganei Ranging Engine (KRE) software is under development in which all resources in laser station related to multiple application including SLR are to be administrated.
Open source based software based on Webb and data base integrates the configuration set parameter management of station subsystem such as telescope, Range Gate Generator, Event timer, laser and meteorological subsystem.
Non-dedicated SLR laser station like Koganei but also to apply synergy application such as Laser Communication experiment will be discussed.

development policy

- Debit is easy to add a new feature. SLR is one of OGS function.
  - Station specialized functions can be developed as plugins.

Debit System Block Diagram and Features

using **OPEN SOURCE TECHNOLOGY**

- Apache Http Server
- PHP
- CakePHP Framework
- gettext
- PostgreSQL *
- MySQL *

* : some other database engines are available

Development Status
Supported features within the current fiscal year

measurement data
- Parsing CRD Files and Save The Contained Data to Database
- Supports Limit Search and Sorting
- Making Reports from Saved Data
- Station and Target Property List
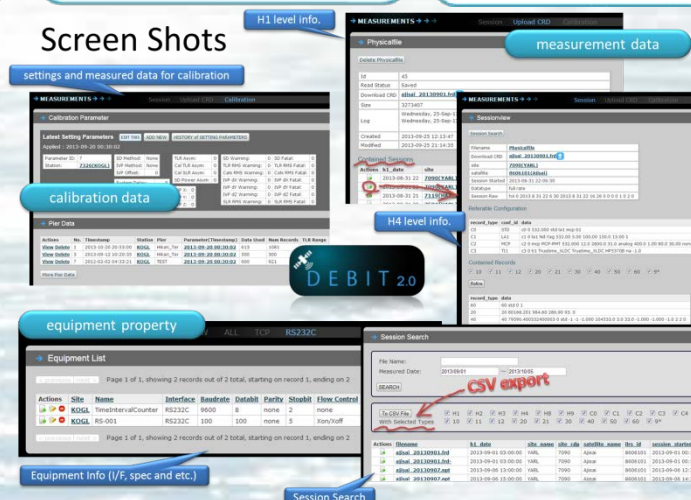
equipment property
- Equipment Management

calibration data
- Calibration Setting
- Calibration Data

utility
- Login User Management
- Customizing User Hints on Site
- Supports Localization

UPLOAD & DOWNLOAD CRD CSV

LOW COST

PLATFORM FREE Linux / Windows / MacOS

EASY to CUSTOMIZE FOR EACH STATION

- Under Development
- Implemented

Screen Shots

enhancement ⬆
- Usability and Flexibility for Searching
- Customizing Reports
- Increasing the Number of Supported Languages

Add features ➕
- Uploading Automatic Generated CRD Files to ILRS
- Automatically Updating Master Data (Stations and Targets Defined by ILRS)
- Mets and subsystem Information Management