

Pflichtenheft

Management von Sensordaten

Einführung

- Aufgabe : Software entwerfen/entwickeln um Sensordaten auf einen FROST-Server zu laden
- Daten entsprechen nicht zwangsweise dem SensorThings Standard und müssen konvertiert werden
- Priorität : Benutzbarkeit, Software soll vor allem leicht zu bedienen sein, selbst ohne technischem Vorwissen

Funktionen

Erforderlich :

- Upload der Daten auf FROST-Server
- Konvertierung der Daten zum SensorThings Standard
- Erstellen und speichern von Programmkonfigurationen

Optional :

- Dem Nutzer eine Standardkonfiguration zur Verfügung stellen
- Daten auf Duplikate überprüfen
- ...

Gui Übersicht

Web Interface for Uploading Data to a FROST-Server

Some text shortly describing what this web interface is for.

Choose Source:

☒ Upload File ☐ Choose Website

File:

/User/Sensors/data.csv

Browse

Show preview

Choose Configuration:

Choose config file

Log

Configuration:

Delimiter:

:

Thing:

thing or id

Create Thing

Number of header lines:

2

DateTime:

Timezone:

insert timezone

Column:

Format:

TT-MM-JJJJ

HH:MM

Add column

Datastreams:

Name:

/MultiDatastreams(2)

Unit:

"m/s"

Column:

6

Create DS

"deg"

8

Add DS

<

|||

>

Reset

Save

Help

Upload

Gui Übersicht

Web Interface for Uploading Data to a FROST-Server

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Choose Source:
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 File:

Configuration:

 Delimiter:

 Number of header lines:

Thing:

DateTime:

 Timezone:

Column:	<input type="text" value="2"/>	Format:	
	<input type="text" value="3"/>	<input type="text" value="HH:MM"/>	<input type="button" value="Add column"/>

Choose Configuration:

Log

Datastreams:

 Name:

Unit:	Column:	
"m/s"	<input type="text" value="6"/>	<input type="button" value="Create DS"/>
"deg"	<input type="text" value="8"/>	

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Thing:

thing or id

Create Thing

Number of header lines:

2

DateTime:

Timezone:

insert timezone

Column:

2

Format:

TT-MM-JJJJ

3

HH:MM

Add column

Choose Configuration:

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Log

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/MultiDatastreams(2)

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Configuration:

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Create Thing

Number of header lines:

DateTime:
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Format:

Add column

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Configuration:

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Create Thing

Number of header lines:

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Name:

Unit:

Column:

Create DS

"deg"

Add DS

DateTime:

Timezone:

Column:

Format:

Add column

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Testfall

- User wählt eine Datei aus

Web Interface for Uploading Data to a FROST-Server

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Show preview

Configuration:

Delimiter:

Thing:

Create Thing

DateTime:

Timezone:

Number of header lines:

Column:

Format:

Add column

Choose Configuration:

Choose config file

Log

Datastreams:

Name:

Unit:

Column:

Create DS

Add DS

<

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Reset

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Help

Upload

Testfall

- Trennsymbol und Kopfzeilen angeben

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Configuration:

Delimiter:

Number of header lines:

Thing:

Create Thing

DateTime:
Timezone:

Column:

Format:

Add column

Choose Configuration:

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"m/s"

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Create DS

"deg"

Add DS

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Testfall

- Angaben zum Thing eingeben

A web form for creating a 'Thing'. The form is enclosed in a window-like border with standard minimize, maximize, and close buttons in the top right corner. The form contains the following elements:

- Name:** A text input field containing the text 'Testfall Thing'.
- Description:** A text input field containing the text 'Lorem Ipsum'.
- Properties:** Two empty text input fields side-by-side, followed by a button labeled 'Add property'.
- Location:** A text input field containing the text 'Karlsruhe', followed by a dropdown arrow icon.
- Below the 'Location' field, there are two buttons: 'Create Location' and 'Create'.

Testfall

- Datums-/Zeitformat und Zeitzone angeben

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Choose Configuration:

Log

Configuration:

Delimiter:

Number of header lines:

Thing:

DateTime:

Column: Format:

Datastreams:

Name:

Unit: Column:

<

|||

>

Testfall

- Neuen Datastream erstellen

Web Interface for Uploading Data to a FROST-Server

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File:

Browse

Show preview

Choose Configuration:

Choose config file

▼

Log

Configuration:

Delimiter:

Number of header lines:

Column:

2

3

Format:

TT-MM-JJJJ

HH:MM

Add column

Datastreams:

Name:

Unit:
"m/s"

Column:

"deg"

Create DS

Add DS

<

|||

>

Reset

Save

Help

Upload

Testfall

- Datastream Daten angeben

Name:

Test-Datastream

Description:

Test

Observation type:

Integer

▼

Sensor:

Tachometer

▼

Create Sensor

Units of Measurement

Observed Property:

Name:

Symbol:

Definition:

Aggregation:

Speed

▼

m/s

m/s

ucum:m/s

▼

Create Property

Add unit

Create

Testfall

- Upload starten

Web Interface for Uploading Data to a FROST-Server

Some text shortly describing what this web interface is for.

Choose Source:

☒ Upload File ☐ Choose Website

File:

Browse

Show preview

Configuration:

Delimiter:

Thing:

Testfall Thing

▼

Create Thing

DateTime:
Timezone:

Number of header lines:

Column:

2

3

Format:

TT-MM-JJJJ

HH:MM

Add column

Choose Configuration:

Choose config file ▼

Log

Datastreams:

Name:

Test Datastream

▼

Unit:
"m/s"

Column:

Create DS

Add DS

<

|||

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Reset

Save

Help

Upload