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# **Okuma America Corporation**

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## **Okuma MTConnect Adapter**

### **Release Notes**

**Document No.: S5053-004-25**

OKUMA MTConnect Adapter	Version: 2.2.5.0
Release Notes	Date: 06/24/2016

## Revision History

Date	Version	Description	Author
7/25/2011	S5053-004-00	Public release System Version 1.0.0.0	Linh Huynh
10/14/2011	S5053-004-01	Public release System Version 1.3.0.0	Linh Huynh
12/20/2011	S5053-004-02	Public release System Version 1.3.2.0	Linh Huynh
02/17/2012	S5053-004-06	Public release System Version 1.3.6.0	Linh Huynh
02/20/2012	S5053-004-07	Public release System Version 1.3.7.0	Linh Huynh
06/08/2012	S5053-004-08	Public release System Version 1.3.8.0	Linh Huynh
10/09/2013	S5053-004-09	Beta release System Version 1.5.0.0	Linh Huynh
11/05/2013	S5053-004-10	Beta release System Version 1.5.1.0	Linh Huynh
01/07/2014	S5053-004-11	Beta release System Version 1.5.2.0	Linh Huynh
01/09/2014	S5053-004-12	Beta release System Version 1.5.3.0	Linh Huynh
04/15/2014	S5053-004-13	Beta release System Version 1.5.4.1	Linh Huynh
05/06/2014	S5053-004-14	Beta release System Version 1.5.5.1	Linh Huynh
05/14/2014	S5053-004-15	Beta release System Version 1.5.5.2	Linh Huynh
05/16/2014	S5053-004-16	Beta release System Version 1.5.5.3	Linh Huynh
06/24/2014	S5053-004-17	Public release System Version 1.5.6.0	Linh Huynh
07/28/2014	S5053-004-18	Beta release System Version 1.5.6.1	Linh Huynh
08/04/2014	S5053-004-19	Public release System Version 1.5.7.0	Linh Huynh
10/31/2014	S5053-004-20	Public release System Version 2.0.0.0	Linh Huynh
02/06/2015	S5053-004-21	Public release System Version 2.1.0.0	Linh Huynh
06/19/2015	S5053-004-22	Beta release System Version 2.1.2.0	Linh Huynh
09/24/2015	S5053-004-23	Beta release System Version 2.2.2.0	Linh Huynh
06/24/2016	S5053-004-25	Public Release System Version 2.2.5.0	Linh Huynh

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# Release Notes for Okuma MTConnect Adapter

## 1. Introduction

### 1.1 Disclaimer of Warranty

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### 1.2 Purpose

The purpose of the **Release Notes** document is to communicate major new features and changes in this release of the Okuma MTConnect Adapter. It also documents known problems and workarounds.

### 1.3 Scope

This document describes this public release of Okuma MTConnect Adapter version 2.2.5.0

### 1.4 References

None

## 2. About This Release

In this release, the device configuration file, named Devices.xml, is automatically generated by the application to meet per machine specification that the adapter currently can support.

### 2.1 Prerequisite Software

This release of this application is required to include:

- THINC API release 1.18.0.0 for Lathe
- THINC API release 1.18.0.0 for MC
- Start-up Service version 3.2.1.0 or latest version
- MTConnect Agent version 1.3.0.15 or latest version
- MTConnect schemas 1.3.0.0 only.

### 2.2 License

Not applicable

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## 2.3 Machine Model

This release supports OKUMA OSP-P300/P200/P100II machines.

The following files included with the installation disk contain data items that can be supported per machine type:

- Lathe2SPDevices.xml : Lathe with 2 sides
- LatheDevices.xml: Any Lathe except for 2 sides Lathe
- MCDevices: Any Machining Center
- Agent.cfg: default agent configuration file

Please contact your local distributor service department if you experience any difficulties with installing the software or using the system.

## 2.4 Features

The adapter supports MTConnect schema version 1.3.0 only.

# 3. New Features

## 3.1 Lathe

Standard Lathe:

```
<!-- M Spindle SA on A turret-->
<Rotary name="C6" id="Lc6" nativeName="SA">
  <DataItems>
    <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S6speed"
      subType="ACTUAL" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="LS6speed"/>
    <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S6cmd"
      subType="PROGRAMMED" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="LS6cmd"/>
    <DataItem type="ROTARY_VELOCITY_OVERRIDE" category="EVENT" name="S6ovr" subType="PROGRAMMED"
      units="PERCENT" nativeUnits="PERCENT" id="LS6ovr"/>

    <DataItem type="LOAD" category="SAMPLE" name="S6load"
      units="PERCENT" nativeUnits="PERCENT" id="LS6load"/>
    <DataItem category="EVENT" id="LS6Mode" name="S6Mode" type="ROTARY_MODE">
      <Constraints>
        <Value>SPINDLE</Value>
      </Constraints>
    </DataItem>
  </DataItems>
</Rotary>

<!-- M Spindle SB on B Turret-->
<Rotary name="C7" id="Lc7" nativeName="SB">
  <DataItems>
    <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S7speed"
      subType="ACTUAL" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="LS7speed"/>
    <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S7cmd"
      subType="PROGRAMMED" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="LS7cmd"/>
    <DataItem type="ROTARY_VELOCITY_OVERRIDE" category="EVENT" name="S7ovr" subType="PROGRAMMED"
      units="PERCENT" nativeUnits="PERCENT" id="LS7ovr"/>

    <DataItem type="LOAD" category="SAMPLE" name="S7load"
      units="PERCENT" nativeUnits="PERCENT" id="LS7load"/>
    <DataItem category="EVENT" id="LS7Mode" name="S7Mode" type="ROTARY_MODE">
      <Constraints>
        <Value>SPINDLE</Value>
      </Constraints>
    </DataItem>
  </DataItems>
</Rotary>

<!-- M Spindle SC on C Turret-->
<Rotary name="C8" id="Lc8" nativeName="SC">
```

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```

<DataItems>
  <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S8speed"
    subType="ACTUAL" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="LS8speed"/>
  <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S8cmd"
    subType="PROGRAMMED" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="LS8cmd"/>
  <DataItem type="ROTARY_VELOCITY_OVERRIDE" category="EVENT" name="S8ovr" subType="PROGRAMMED"
    units="PERCENT" nativeUnits="PERCENT" id="LS8ovr"/>

  <DataItem type="LOAD" category="SAMPLE" name="S8load"
    units="PERCENT" nativeUnits="PERCENT" id="LS8load"/>
  <DataItem category="EVENT" id="LS8Mode" name="S8Mode" type="ROTARY_MODE">
    <Constraints>
      <Value>SPINDLE</Value>
    </Constraints>
  </DataItem>
</DataItems>
</Rotary>

```

Two sides Lathe:

```

<!-- M Spindle SA on A turret R Machine-->
<Rotary name="C6" id="Lc6" nativeName="SA">
  <DataItems>
    <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S6speed"
      subType="ACTUAL" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="L2S6speed"/>
    <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S6cmd"
      subType="PROGRAMMED" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="L2S6cmd"/>
    <DataItem type="ROTARY_VELOCITY_OVERRIDE" category="EVENT" name="S6ovr" subType="PROGRAMMED"
      units="PERCENT" nativeUnits="PERCENT" id="L2S6ovr"/>

    <DataItem type="LOAD" category="SAMPLE" name="S6load"
      units="PERCENT" nativeUnits="PERCENT" id="L2S6load"/>
    <DataItem category="EVENT" id="L2S6Mode" name="S6Mode" type="ROTARY_MODE">
      <Constraints>
        <Value>SPINDLE</Value>
      </Constraints>
    </DataItem>
  </DataItems>
</Rotary>

<!-- M Spindle SA on A Turret L Machine-->
<Rotary name="C7" id="Lc7" nativeName="SA">
  <DataItems>
    <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S7speed"
      subType="ACTUAL" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="L2S7speed"/>
    <DataItem type="ROTARY_VELOCITY" category="SAMPLE" name="S7cmd"
      subType="PROGRAMMED" units="REVOLUTION/MINUTE" nativeUnits="REVOLUTION/MINUTE" id="L2S7cmd"/>
    <DataItem type="ROTARY_VELOCITY_OVERRIDE" category="EVENT" name="S7ovr" subType="PROGRAMMED"
      units="PERCENT" nativeUnits="PERCENT" id="L2S7ovr"/>

    <DataItem type="LOAD" category="SAMPLE" name="S7load"
      units="PERCENT" nativeUnits="PERCENT" id="L2S7load"/>
    <DataItem category="EVENT" id="L2S7Mode" name="S7Mode" type="ROTARY_MODE">
      <Constraints>
        <Value>SPINDLE</Value>
      </Constraints>
    </DataItem>
  </DataItems>
</Rotary>

```

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## 4. Changes

### 4.1 Configurations

The system allows user to select part count method using either MacMan Machining Report or Work Counter. Please refer to the Installation Manual in section 5.3.2 for more information.  
The control must support Work Counter option spec code [19,0] if Work Counter is selected as counting method.

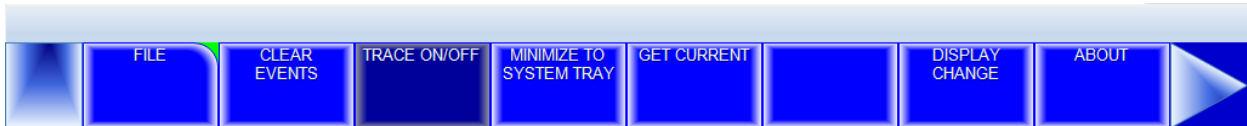
### 4.2 Main User Interface – TaskBar menu

TaskBar menu item will be removed from this version.

Old menu bar



New menu bar



## 5. Defects fixed in this release

### 5.1 P100II controls

Revised forms to fit Windows screen resolution at 800x600

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## 5.2 P300L and P300S

Correct spindle rate override

## 5.3 P300M/SMP

Correct Tool Assets on machine equipped with 5 magazines.

## 6. Known Issues

### 6.1.1 P100II - Two side Lathe

```
<DataItem type="EXECUTION" name="plexecution" category="EVENT" id="L2plexecution"/>
<DataItem type="EXECUTION" name="p2execution" category="EVENT" id="L2p2execution"/>
```

Feed hold status does not report correctly for these tags. It only reports the current active side of machine on NC HMI but not the individual side of machine.