Okuma America Corporation

Okuma MTConnect Adapter

Release Notes

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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
09/26/2016	S5053-004-26	Public Release System Version 3.0.0.0	Linh Huynh
03/16/2017	S5053-004-27	Public Release System Version 3.1.0.0	Linh Huynh
04/11/2019	S5053-004-28	BETA Release System Version 3.1.9.0	Linh Huynh
11/05//2019	S5053-004-29	Public Release System Version 3.2.0.0	Linh Huynh
02/19/2020	S5053-004-30	Public Release System Version 3.2.1.0	Linh Huynh
03/19/2021	S5053-004-31	Public Release System Version 3.3.0.0	Linh Huynh
05/04/2021	S5053-004-32	Public Release System Version 3.3.1.0	Linh Huynh
12/14/2021	S5053-004-33	Public Release System Version 3.3.2.0	Linh Huynh
05/09/2022	S5053-004-34	Public Release System Version 4.0.0.0	Linh Huynh

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05/09/2022	S5053-004-35	Public Release System Version 4.1.0.0	Linh Huynh
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04/11/2023	S5053-004-37	Public Release System Version 4.1.2.0	Linh Huynh
06/29/2023	S5053-004-37-01	Public Release System Version 4.1.3.0	Linh Huynh
02/18/2025	S5053-004-38	Public Release System Version 4.2.0.0	Linh Huynh
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Table of Contents

1. Introduction 5
   1.1 Disclaimer of Warranty 5
   1.2 Purpose 5
   1.3 Scope 5
   1.4 References 5

2. About This Release 5
   2.1 Prerequisite Software 5
   2.2 License 5
   2.3 Machine Model 6
   2.4 Features 6

3. Changes/New 6

4. Known Issues 6
      4.1.1 P100II - Two side Lathe 6
      4.1.2 P300G 6
      4.1.3 Tool Data for P300S/P300L 7

5. Defects fixed in this release 7
   5.1 Application not shown when OSP VKey is pressed on OSP-P500 7
   5.2 Rotary Axes on machining center return incorrect value 7

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 4.3.0.0

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 1.22.5.0 for Lathe
- THINC API release 1.23.0.0 for MC
- THINC API release 1.22.5.0 for Grinder
- Start-up Service version 4.4.0 or latest version
- MTConnect Agent version 1.6.0.7 or latest version

2.2 License

Not applicable

2.3 Machine Model

This release supports OKUMA OSP- P300A/P300/P200/P100II or newer controls.
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
- GrinderDevices: Any P300G Grinder
- 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 1.2.0 to 1.4.0 only.
This version and new version of MTConnect Adapter can support the following languages:

- English (default)

3. Changes/New

4. Known Issues

4.1.1 P100II - Two side Lathe

```
<DataItem  type="EXECUTION" name="p1execution" category="EVENT" id="L2p1execution"/>
<DataItem  type="EXECUTION" name="p2execution" category="EVENT" id="L2p2execution"/>
```

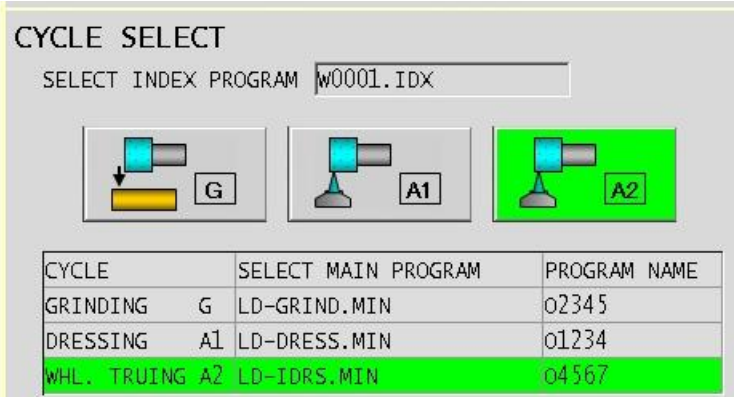
Feed hold status does not report correctly for these tags. It only reports the current active side of machine on NC HMI but not the individual side of machine.

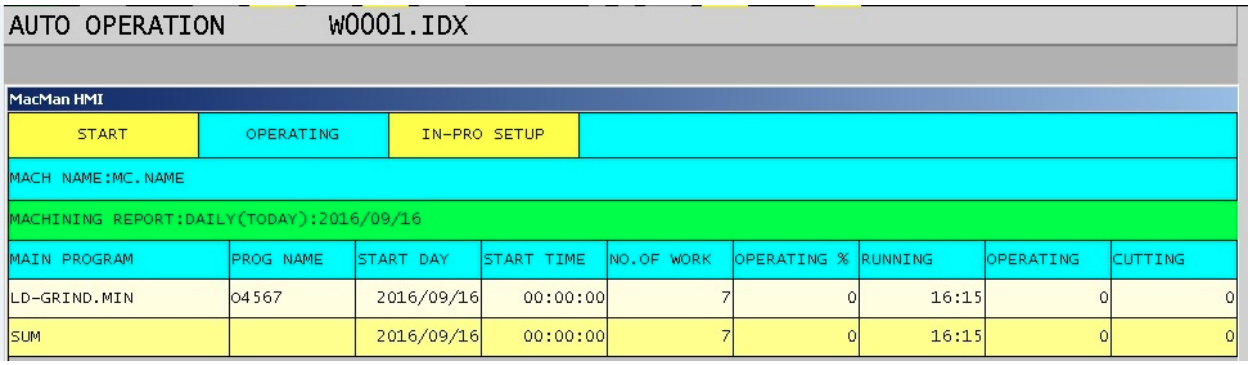
4.1.2 P300G

```
<DataItem  type="PROGRAM" name="p1program" category="EVENT" id="Gp1program"/>
<DataItem  type="PART_COUNT" name="p1partcount"  category="EVENT" id="Gp1partcount"/>
```

When Grinder uses Work Selection, part count and part program can only report total count of program for Grinding G Cycle as a whole.

The future release of OSP system will allow part program and part count per running part program when Work Selection is using.





4.1.3 Tool Data for P300S/P300L

For P300S(LP) :
Tool Asset, Current Tool for A/B/C turret, and ToolAssetID tags will not be available when one of the following conditions are met:

- Tool ID is ON
- TMIM is OFF

For P300L:
Tool Asset, Current Tool for A/B/C turret, and ToolAssetID tags will not be available when the specification of LTIM is OFF.

```
<!-- Tool Path related to upper A/H1 turret-->
<DataItem type="TOOL_NUMBER" name="p1CurrentTool" category="EVENT" id="Lp1CurrentTool" />
<DataItem type="TOOL_ASSET_ID" name="p1ToolAssetId" category="EVENT" id="Lp1ToolAssetId" />

<!-- Tool Path related to B turret-->
<DataItem type="TOOL_NUMBER" name="p2CurrentTool" category="EVENT" id="Lp2CurrentTool" />
<DataItem type="TOOL_ASSET_ID" name="p2ToolAssetId" category="EVENT" id="Lp2ToolAssetId" />

<!-- Tool Path related to C turret-->
<DataItem type="TOOL_NUMBER" name="p3CurrentTool" category="EVENT" id="Lp3CurrentTool" />
<DataItem type="TOOL_ASSET_ID" name="p3ToolAssetId" category="EVENT" id="Lp3ToolAssetId" />
```

```
<?xml version="1.0" encoding="UTF-8"?>
<MTConnectAssets xsi:schemaLocation="urn:okuma.com:OkumaToolAssets:1.3 /schemas/OkumaToolAssets_1.3.xsd"
xmlns:x="urn:okuma.com:OkumaToolAssets:1.3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:mtconnect.org:MTConnectAssets:1.3" xmlns:m="urn:mtconnect.org:MTConnectAssets:1.3"><Header
assetCount="0" assetBufferSize="1024" version="1.3.0.17" instanceId="1484830744" sender="OKUMA-90BF578E1"
creationTime="2017-01-19T13:00:10Z"/><Assets/></MTConnectAssets>
```

5. Defects fixed in this release

5.1 Application not shown when OSP VKey is pressed on OSP-P500

5.2 Rotary Axes on machining center return incorrect values.

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