Okuma America Corporation

THINC-API
Release Notes for Grinder

Document No.: S5015-064-00

Revision History

Date	Version	Description	Author
09/26/2016	S5015-064-00	Public Release 1.19.0.0 of THINC-API	LHuynh

Table of Contents

1. Introduction 4
   1.1 Disclaimer of Warranty 4
   1.2 Purpose 4
   1.3 Scope 4
   1.4 Definitions, Acronyms, and Abbreviations 4
   1.5 References 4

2. About This Release 4

3. Features 5

Release Notes for Grinder

1. Introduction

1.1 Disclaimer of Warranty

Okuma America Corporation makes no representations or warranties, either expressed or implied, by or with respect to anything in this document, and shall not be liable for any implied warranties of merchantability or fitness for a particular purpose or for any indirect, special or consequential damages.

1.2 Purpose

The purpose of the ***Release Notes*** document is to communicate major new features and changes in this release of the THINC-API for Grinder libraries. It also documents known problems and workarounds.

1.3 Scope

This document describes Public Release 1.19.0.0 of THINC-API

1.4 Definitions, Acronyms, and Abbreviations

GAC – Global Assembly Cache Windows folder

1.5 References

None.

2. About This Release

Public Release of the THINC-API library for Grinder supports the following:

From this release and forward, THINC-API libraries will check dependency libraries during installation. THINC-API will fail to install if version of dependency OCJ libraries cannot support current version of THINC-API.

From this release and forward, API Notifier will delay the checking of API for an approximately of 1 minutes or so after NC is running.

Libraries included in this release for Grinder are compiled with .NET Framework 4.0:

Version of Okuma.CGDATAPI.dll in this release is 1.0.0.0

Version of Okuma.CGCMDAPI.dll in this release is 1.0.0.0

Version of APINotifierService.exe in this release is 1.19.0.0

Version of APINotifierStatus.exe in this release is 1.2.0.0

Version of Okuma.Flexnet.Net4.dll in this release is 1.0.0.0

Version of Okuma.Apilog2.dll in this release is 1.0.0.0

This release requires OCJ custom API version 001A on target machine. THINC-API will verify the existing of OCJ custom API version before performing the installation.

The PLC system package listed in the table per control type is also required.

OSP	PLCS package
P300	PLCS300A or higher

3. Features

All new functions in this first release for DATA-API and Command API can only support on P300G only. Please refer to the help file for more information.

DATA-API library:

Classes

Class	Description
CAPISpecException	A derived class of ApplicationException to be used specifically when initializing API
CAxis	Class provides functions to obtain machine axes data
CBase	It is a base class for all classes of Data API. All classes in DATA-API will be derived from this class to handle error handling, logging service, and other services for internal data structure of this library ONLY. For a list of all members of this type, see CBase Members.
CIO	Class provides functions to obtain PLC I/O data
CIOAddress	Class represents IO address data
CMachine	Class provides functions to obtain general machine status. This is the main class that must be created first and the Init method must be called to initiate the communication with machine once NC is fully started.
CProgram	Class provides functions to obtain part program information
CSpec	Class provides functions to obtain general machine specification
CSpindle	Class provides functions to obtain spindles information
CTools	Class provides functions to obtain tool information
CVariables	Class provides functions to obtain machine variables information
CWheel	Class provides functions to obtain wheel information
CWheelData	Class provides wheel data information
CWorkpiece	Class provides functions to obtain workpiece information

Command API library:

Classes

	Class	Description
	CBase	It is a base class for all classes of Command API. All classes in Command API will be derived from this class to handle error handling, logging service, and other services for internal data structure of this library ONLY.
	CProgram	Class provides general part program operations.