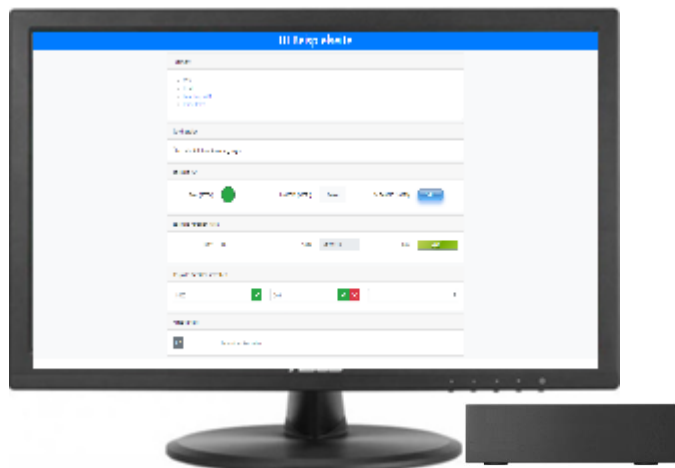


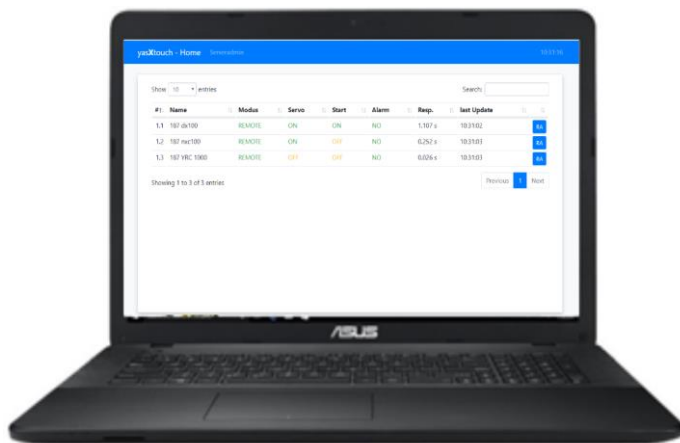
YasXTouch

YasXfer Remote Maintenance
RESTful API Plugin

Übersicht lokal / local Overview



An der Roboterzelle HTML Benutzer Bildschirm
In Front of the System HTML User Screen



Extern / Intern Remote Service



Yaskawa Controller



sichere Verbindung
safety connection

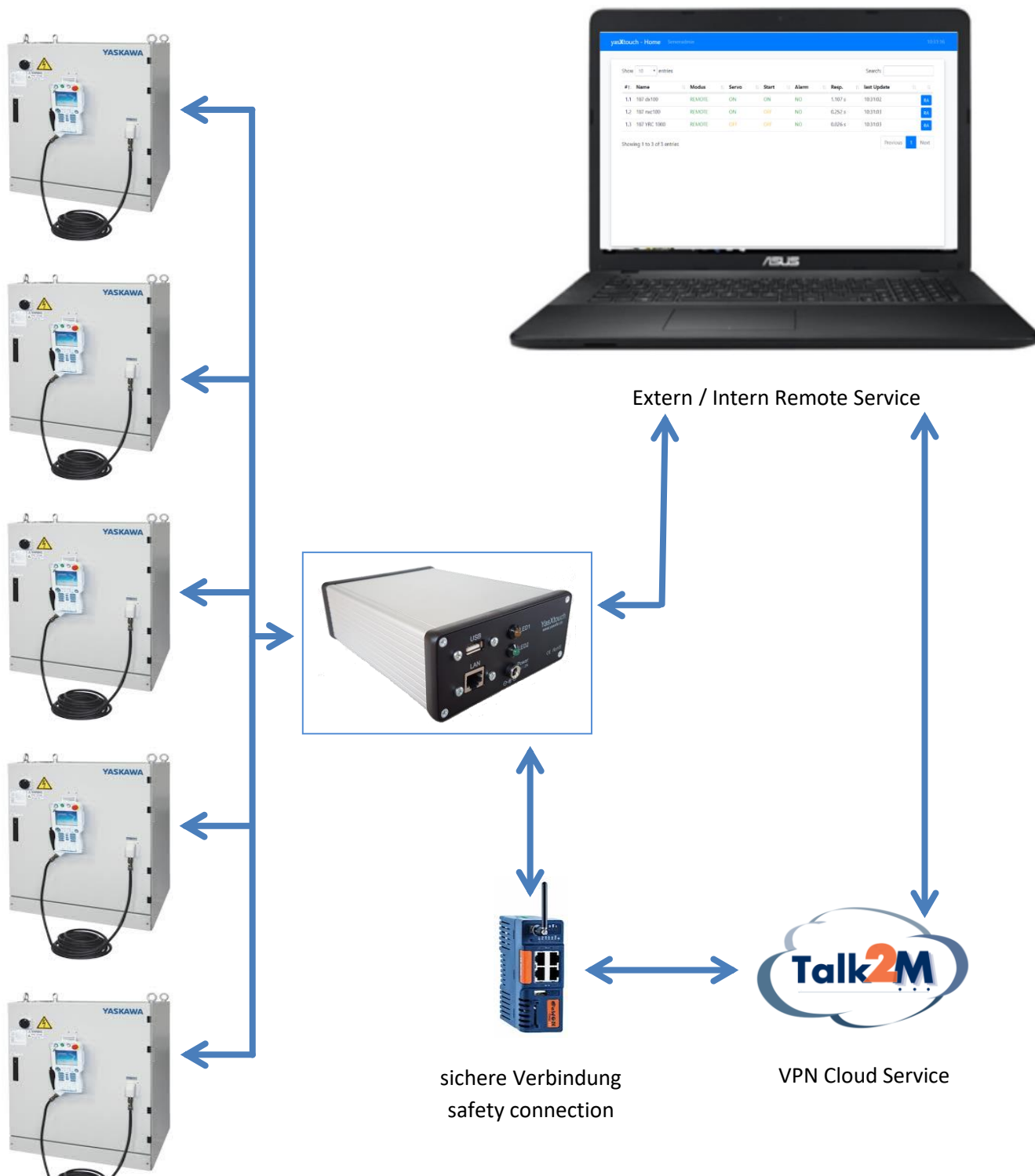


VPN Cloud Service

YasXTouch

YasXfer Remote Maintenance
RESTful API Plugin

Übersicht Robot Admin/Overview Robot Admin



YasXTouch

YasXfer Remote Maintenance
RESTful API Plugin

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YasXTouch

YasXfer Remote Maintenance RESTful API Plugin

Deutsch

1. Funktionsweise

Über die Plugin Funktion können anwenderspezifische Zusatzfunktionen installiert werden. In diesem Fall können über die RESTful API Schnittstelle alle verfügbaren Daten der Controller abgefragt und geschrieben werden.

2. Voraussetzung

- YasXTouch Unit komplett konfiguriert mit eingetragenen Controllern
- Web Browser
- Das Plugin muss zusätzlich als Update nachgeladen werden. Ab Softwarestand 1.37 möglich.
- RESTful API benötigt eine eigene Lizenz

3. RESTful API Startseite

Aufruf des Plugins erfolgt über den neuen Eintrag in der Taskleiste, [YasXTouch - Home](#) [Controller](#) [API](#) [Config](#) [Settings](#) [Help](#) [Logout](#), RESTful



3.1 Lizenz

Die erforderliche Plugin Lizenz muss zuerst eingegeben werden.

YasXTouch - StatusMail
Home
Stats
MailSettings
License
User
Logout

License

License Key
65491156

Serial Number
1149106989

Status
is valid

check

3.2 Befehlsübersicht

Die Übersicht zeigt alle verfügbaren Kommandos. In Klammern die möglichen Steuerungsgenerationen

yasXtouch - RESTful API
Home

FC_009 - File Deleting (XRC, NX100, DX100 UP)
FC_015 - File Loading (save to Controller) (XRC, NX100, DX100 UP)
FC_016 - File Saving (load from Controller) (XRC, NX100, DX100 UP)
FC_032 - File List Acquiring (XRC, NX100, DX100 UP)
RC_070 - Alarm Reading (XRC, NX100, DX100 UP)
RC_072 - Status information Reading (XRC, NX100, DX100 UP)
RC_073 - Executing Job Information Reading (XRC, NX100, DX100 UP)
RC_074 - Axis Configuration Information (NX100, DX100 UP)
RC_076 - Position Error Reading (NX100, DX100 UP)
RC_077 - Torque Data Reading (NX100, DX100 UP)
RC_078 - I/O Data Reading (XRC, NX100, DX100 UP)
RC_07A - Byte Variable (B) Reading / Writing (XRC, NX100, DX100 UP)
RC_07B - Integer Variable (I) Reading / Writing (XRC, NX100, DX100 UP)
RC_07C - Double Precision Variable (D) Reading / Writing (XRC, NX100, DX100 UP)
RC_07E - Character Type Variable (S) Reading / Writing (XRC, NX100, DX100 UP)
RC_07F - Robot Position Type Variable (P) Reading (XRC, NX100, DX100 UP)
RC_082 - Alarm Reset / Error Cancel Command (XRC, NX100, DX100 UP)
RC_083 - Hold/Servo On/off (XRC, NX100, DX100 UP)
RC_084 - Step / Cycle / Continuous Switching (XRC, NX100, DX100 UP)
RC_086 - Start-up (Job Start) (XRC, NX100, DX100 UP)
RC_087 - Job Select (XRC, NX100, DX100 UP)
RC_300 - Plural I/O Data Reading (DX100 UP)
RC_302 - Plural Byte Variable (B) Reading (XRC, NX100, DX100 UP)
RC_303 - Plural Integer Variable (I) Reading (XRC, NX100, DX100 UP)
RC_306 - Plural Character Type Variable (S) Reading (XRC, NX100, DX100 UP)

3.3 Befehl Details

Beim Auswählen des entsprechenden Kommandos werden alle benötigten Daten abgefragt. Durch diese Testabfrage kann überprüft werden, ob die zu programmierende Abfrage funktioniert.

FC_016 - File Saving (load from Controller) (XRC, NX100, DX100 UP)	
URL	http://172.16.20.181/plugins/restful/FC_016/
Method	GET
Username	Username Needed user rights: Robot [view]
Password	Password
Controller ID	1
Filename	SYSTEM.SYS
Description	Filename with ending.
☐ Get Request (Parameter request=on)	
submit	

Username und Password werden im Serveradmin eingerichtet

3.4 Sicherheitseinschränkungen

Die Steuerungskommandos sind nur mit einer Resellerlizenz möglich und unterliegen der Verantwortung des Resellers.

English

21. Functionality

User-specific additional functions can be installed via the plugin function. In this case, all available controller data can be queried and written via the RESTful API interface.

22. Actual Requirements

- YasXTouch Unit completely configured with registered controllers
- Web browser
- The plug-in must also be downloaded as an update. Possible from software version 1.37.
- RESTful API requires its own license

23. RESTful API Homepage

The plug-in is called via the new entry in the task bar, [YasXTouch - Home](#), RESTful

YasXTouch - RESTful API Home

23.1 Licence

The required plug-in license must be entered first.

YasXTouch - StatusMail Home Stats MailSettings License User Logout	
License	
License Key	65491156
Serial Number	1149106989
Status	is valid
check	

YasXTouch

YasXfer Remote Maintenance RESTful API Plugin

23.2 Command overview

The overview shows all available commands. The possible control generations are in parentheses.

yasXTouch - RESTful API	Home
FC_009 - File Deleting (XRC, NX100, DX100 UP)	
FC_015 - File Loading (save to Controller) (XRC, NX100, DX100 UP)	
FC_016 - File Saving (load from Controller) (XRC, NX100, DX100 UP)	
FC_032 - File List Acquiring (XRC, NX100, DX100 UP)	
RC_070 - Alarm Reading (XRC, NX100, DX100 UP)	
RC_072 - Status information Reading (XRC, NX100, DX100 UP)	
RC_073 - Executing Job Information Reading (XRC, NX100, DX100 UP)	
RC_074 - Axis Configuration Information (NX100, DX100 UP)	
RC_076 - Position Error Reading (NX100, DX100 UP)	
RC_077 - Torque Data Reading (NX100, DX100 UP)	
RC_078 - I/O Data Reading (XRC, NX100, DX100 UP)	
RC_07A - Byte Variable (B) Reading / Writing (XRC, NX100, DX100 UP)	
RC_07B - Integer Variable (I) Reading / Writing (XRC, NX100, DX100 UP)	
RC_07C - Double Precision Variable (D) Reading / Writing (XRC, NX100, DX100 UP)	
RC_07E - Character Type Variable (S) Reading / Writing (XRC, NX100, DX100 UP)	
RC_07F - Robot Position Type Variable (P) Reading (XRC, NX100, DX100 UP)	
RC_082 - Alarm Reset / Error Cancel Command (XRC, NX100, DX100 UP)	
RC_083 - Hold/Servo On/off (XRC, NX100, DX100 UP)	
RC_084 - Step / Cycle / Continuous Switching (XRC, NX100, DX100 UP)	
RC_086 - Start-up (Job Start) (XRC, NX100, DX100 UP)	
RC_087 - Job Select (XRC, NX100, DX100 UP)	
RC_300 - Plural I/O Data Reading (DX100 UP)	
RC_302 - Plural Byte Variable (B) Reading (XRC, NX100, DX100 UP)	
RC_303 - Plural Integer Variable (I) Reading (XRC, NX100, DX100 UP)	
RC_306 - Plural Character Type Variable (S) Reading (XRC, NX100, DX100 UP)	

23.3 command details

When selecting the appropriate command, all required data are requested. This test query can be used to check whether the query to be programmed works.

FC_016 - File Saving (load from Controller) (XRC, NX100, DX100 UP)		
URL	http://172.16.20.181/plugins/restful/FC_016/	Server URL
Method	GET	Request method
Username	Username	Header Basic auth
	Needed user rights: Robot [view]	
Password	Password	Header Basic auth
Controller ID	1	Parameter cid
Filename	SYSTEM.SYS	Parameter filename
Description	Filename with ending.	
	☐ Get Request (Parameter request=on)	
submit		

Username and password are set up in the server admin menu

3.4 Security Restrictions

The control commands are only possible with a reseller license and are the responsibility of the reseller.