

# RELEASE NOTES

Atlas Copco



## MTF6000 firmware 1.20.2 release information

01 / 07 / 21

### Introduction

This document contains information about the MTF6000 firmware release 1.20.2

#### Release identification

MTF6000 firmware release 1.20.2

### Limitations

#### HW requirements

- MT Focus 6000
- IAM
  - Workstation
  - Process
  - Automation
  - QA

### General information

This release package contains the following

#### MT Focus 6000

- MTF6000.fw

#### Documentation

- Release notes MTF6000.docx

#### Compatibility

- MT Focus 6000
- ToolsTalk MT v.7.20.6 (and higher)

# RELEASE NOTES

Atlas Copco

## New functions and corrections in version

### 1.20.2.8 (Hotfix)

Function	Header	Description	Type	License Form	Manual ref.
Result	Angle Range	Angle range was not aborting when reaching max angle range	Issue	All Tightening	
Result	Angle Range	Angle range did not work if stop step was lower than the final step	Issue	All Tightening	
Open protocol	MID0067	MID0067 reports all results as OK	Issue	Process, Automation	
Control window	Configuration	Not possible to set Verification mode to CMK directly from the MTF6000 controller	Issue	IAM QA	
Result	New parameters	Update exported result with new parameters	Task	All	
Open protocol	New result parameters	Added step range parameters to OP result (MID1201)	Task	Process, Automation	
Open protocol	MID0900	MID0900 is always sent in mNm	Issue	All Tightening	
Open protocol	MID0035	Sends selected BSeq info twice	Issue	Process, Automation	
Measurement	QA Trigger	QA triggers start measurement on loosening	Issue	IAM QA	
Password	Password parameters	Quick programming, connection info and battery info was missing password	Task	All Tightening	
Controller parameter	ACK on BSeq error	ACK on Bseq error has stopped working	Issue	All Tightening	
GUI	Result view	Angle range errors are first reported as OK before quickly swapping to NOK	Issue	All Tightening	
Import/Export	Import/Export Configuration	Issues with configurations on import and export	Issue	All	
ToolsNet8	Communication	Fixed communication issue that blocked results	Issue	All Tightening	

### 1.20.1.0

Function	Header	Description	Type	License Form	Manual ref.
Measurement search	Measurement search	Search for measurements in measurements database	Improvement	IAM QA	
Pset	New parameters	* Angle Range Start	Improvement	Workstation, Process, Automation	
Pset	Select Pset	Not available Pset's are not selectable.	Improvement	Workstation, Process, Automation	

# RELEASE NOTES

Atlas Copco

## 1.20.0.1

Function	Header	Description	Type	License Form	Manual ref.
Open Protocol	New parameters	<ul style="list-style-type: none"> <li>* Pset type</li> <li>* Verification size</li> <li>* Verification count</li> <li>* Tool calibration date</li> <li>* Tool config revision</li> <li>* Tool torque estimation type</li> </ul>	Improvement	Process, Automation	
Fieldbus	New parameters	<ul style="list-style-type: none"> <li>* Pset type</li> <li>* Verification size</li> <li>* Verification count</li> <li>* Tool calibration date</li> <li>* Tool config revision</li> <li>* Tool torque estimation type</li> </ul>	Improvement	Automation	
Operator	Operator ID		New feature	IAM QA	
Transducer tool	Current monitoring	Dual current/transducer torque check	New feature	Process, Automation	

## 1.18.1.0 (Hotfix)

Function	Header	Description	Type	License Form	Manual ref.
Pset parameters	Bug fix for Invalid Pset parameters	<p>IAM created with version 1.12 may have incorrect Pset configuration files and can trigger "Invalid Pset configurations. Replace IAM" error.</p> <p>Updating to 1.18.1.0 will update the Pset configuration files and the error will disappear.</p>	Issue	Workstation and Process	

## 1.18.0.0

Function	Header	Description	Type	License Form	Manual ref.
Verification result	User defined verification result	User can now decide if the verification result should be based on individual tightenings or on the CMK	New feature	All	

# RELEASE NOTES

Atlas Copco



Verification result	Tool or Target vs Ref	When verification result is set to Verify results (individual tightenings) it is now possible to decide if the result should be measured on the deviation from target or tool. ( <i>Tool vs Ref is ONLY available on transducerized tools when running with USB Sync</i> )	New feature	All	
Verification result	Min CMK	When verification result is set to CMK it is possible to enter a min CMK limit. If the verification result CMK is below this value the verification will fail	New feature	All	
Station barcode	Updated STBC	After feedback from selective sales, the station barcode has been updated. <b>Added parameters:</b> <ul style="list-style-type: none"> <li>Control limit</li> <li>Minimum CMK</li> <li>Operator ID flag</li> <li>Tool calibration date</li> </ul> <b>Removed parameters:</b> <ul style="list-style-type: none"> <li>Max pos deviation</li> <li>Max neg deviation</li> </ul>	Improvement	All	
USB Export	Event export	Added support to export the event log via USB flash drive from the controller	New feature	All	
Bit Selector	Added Bit Selector	Added support for Bit Selector in Digital I/O, Configurations and Batch sequence  <i>Compatible with Bit selector MT BS4 MTF6000 Art.Nr.: 1280125909 (from ACE)</i>	New feature	All Tightening	
Identifier	Operator ID	Added Operator ID support in the QA controller. ( <i>New identifier type</i> )	New feature	IAM QA	
Identifier	Operator ID required	Parameter in Verification program can be set to force user to enter an Operator ID or not.	New feature	All Tightening	
Controller settings	Ack on batch sequence error	It is now possible to select if an acknowledge is mandatory or not when receiving the Batch sequence error popup. (if password is required it will override the ack on BSeq parameter)	Improvement	All Tightening	
Fieldbus diagnostic	Support for fieldbus diagnostics	IAM Automation now supports fieldbus diagnostics	New feature	IAM Automation	
GUI	Batch sequence view	Error text on events was not displayed in Batch sequence view	Issue	All Tightening	

# RELEASE NOTES

Atlas Copco



	GUI issue on event text				
Verification parameters	Removal of Max pos/neg deviation and CMK Control limit	The three previous parameters has been combined to one. "Control limit"	Improvement	All	
Result statistics	QA result statistics	The QA could get an OK/NOK count in the result list that exceeded the total result count of 10 000.  <i>(To avoid this error the database must be cleared with USB export result)</i>	Issue	IAM QA	
Edit IP address	Could not press UP if value was 255	Fixed wraparound for enter IP on value 255	Issue	All	
Reset Batch	Bluescreen on reset batch from controller	If a user press reset batch from the controller while in an Event Advanced scan step it could result in a bluescreen	Issue	All tightening	

## 1.16.0.3

Function	Header	Description	Type	License Form	Manual ref.
Default values	Changed Network mode default to Disabled	To comply with the new California Act. All newly produced IAMs with version 1.16.0.3 and higher will have network mode set to disabled as default.  This does not change the parameter value of already existing IAMs	Improvement	All	
Battery adapter	Fixed Battery adapter hardware error	Solved issue with "Battery adapter hardware error" sometimes appearing when starting to charge battery.	Issue	All	

## 1.16.0.2

Function	Header	Description	Type	License Form	Manual ref.
Open Protocol	MID 0067	It is now possible to get old tightening results and graphs from the MTF6000 database with OP.	New feature	All Tightening	Open Protocol MT Focus 6000 – Instruction supplement
Rescinding torque	Incorrect NOK	Fixed bug with rescinding torque that triggered a NOK on last tightening sample	Issue	All Tightening	NA

# RELEASE NOTES

Atlas Copco



CMK Control limit	User defined control limit	The user can now set their own CMK control limit	New feature	QA	Configuration Manual ToolsTalk MT
Fieldbus protocol	Added support for EtherCAT	MTF6000 can now communicate over EtherCAT  External Hardware EtherCAT MT (8432085310) is required	New feature	IAM Automation	Configuration Manual ToolsTalk MT
GUI	Icons on all popups	All text popups now has icons to describe the popup	Improvement	All	NA
GUI	Inc/Dec Batch and Batch sequence	The Inc/Dec batch and batch sequence function in MTF6000 was printed incorrectly on the screen.	Issue	All Tightening	NA
Open Protocol	Added result parameters	Added: Tool calibration date Tool config revision Tool torque type	New feature	All tightening	Open Protocol MT Focus 6000 – Instruction supplement
Open Protocol	Edit Pset parameters MID 2500	It is now possible to edit Pset parameters directly from OP. This feature is locked to the IAM Automation license	New feature	IAM Automation	Open Protocol MT Focus 6000 – Instruction supplement
Open Protocol	Added Pset parameters	Added “Adjust to limit”. If enabled, this parameter will adjust all out of range parameters in the Pset to the highest or lowest available value	New feature	IAM Automation	Open Protocol MT Focus 6000 – Instruction supplement
Open Protocol	Disable/remove a Pset	Sending “Step count = 0” with MID 2500 then the Pset will be deleted	New feature	IAM Automation	Open Protocol MT Focus 6000 – Instruction supplement
STBC	Updated station barcode length	Updated max limit for station, line and controller ID to same as controller (999999999)	Improvement	All	NA
Default parameters	Battery adapter enable as default	Battery adapter enabled is now default for the RS232 port on all new IAMs	New feature	All Tightening	NA
New transducers	MT-TRA and MT-TH	The controller now supports MT-TRA and MT-TH transducers	New feature	IAM QA	NA
USB Sync	QA Select Verification Program	Now the QA only displays valid Verification programs made for the connected tool when using USB Sync	Improvement	QA	NA
Fieldbus parameters	Added new CF and RF in Fieldbus	Added: CF Reset Verification RF Verification complete RF Verification active RF Service required RF Battery connected RF Battery low RF Verification OK RF Verification NOK			



# RELEASE NOTES

Atlas Copco

## 1.14.2.5 (Fieldtest)

Function	Header	Description	Type	License Form	Manual ref.
Sensor torque	Unfiltered torque	Fixed issue where sensor peak value was evaluated from unfiltered torque.	issue	QA	
GUI	Incorrect position	Fixed incorrect position of GUI function for STBC vs USB Sync error message	issue	QA	
GUI	New icons for all text popups	Added complete/done event icon and added event icons to a bunch of popups!	Task	All	
Result	Mismatch in exported result	USB export and TTMT export results now match. Some parameters had different names	Task	QA	
USB Sync	USB Sync stopped working	Connection issue sometimes happened with USB Sync			

## 1.14.0.0 (Fieldtest)

Function	Header	Description	Type	License Form	Manual ref.
New license	IAM QA	Now supports IAM QA	New license	QA	NA
USB Export	Faster USB export	Export graphs via USB is now superfast!  <u>1 000 graphs</u> Old software: 220 s (~4min) New software: 50 s (~1min) Improvement: 440% faster  <u>10 000 graphs</u> Old software: 10 800 s (~3h) New software: 480 s (~8min) Improvement: 2250 % faster	Improvement	All	NA
Verification	Verification program	Verification program has been added to the Tightening controller to use when verifying the tool with the QA device	New feature	All tightening licenses	NA
Digital I/O	New Digital I/O's	Verification complete Verification active Verification OK/NOK (only if USB sync is active) Service required Battery connected Battery low	Improvement	All	NA
USB Sync.	Full traceability between controllers	Possible to synchronize the tightening and QA controller to gain dual graphs and full	New feature	All	NA

# RELEASE NOTES

Atlas Copco



		tightening result inside the QA device.			
Graphs	Dual graph support	The QA device can store dual graphs with each measurement. Only available if measurement was made with USB Sync.	New feature	QA	NA
Station barcode	Some traceability from tightening to QA	When activating a verification program in the tightening controller a popup with a QR code will appear. (Station barcode) This QR code contains information about the tool and controller that the QA can get by scanning the code.	New feature	All tightening licenses	NA
Battery	Can now run on battery	The MTF6000 can now run on battery	New feature	All	NA
Quick programming	Updated quick programming	New quick programming where it is possible to select if the user wants to create a Pset or a Verification program directly inside the controller.	Improvement	All tightening licenses	NA

## 1.12.0.7 (Hotfix)

Function	Header	Description	Type	License Form	Manual ref.
TCP IP	Possible bluescreen on too high TCP IP traffic	Fixed issue with the TCP communication that could in some cases result in a bluescreen when too heavily loaded.	Bug fix	All	NA

## 1.12.0.6

Function	Header	Description	Type	License Form	Manual ref.
New license	IAM Automation	Now supports IAM Automation	New license	Automation	Configuration Manual ToolsTalk MT (4.0)
Fieldbus Carrier MT	New Accessory	New accessory Fieldbus Carrier MT support.	New accessory	Automation	MTF6000 PI: 9839 0470 01 Fieldbus Carrier MT PI: 9839 1138 01
FB Protocol	PROFINET	MTF6000 currently only supports Profinet.  The Fieldbus Carrier MT is only compatible with Anybus module M40 (8432085320)	New feature	Automation	Configuration Manual ToolsTalk MT (4.0)



# RELEASE NOTES

Atlas Copco



Psets	999 Psets	Increased the available number of Psets to 999 for IAM Automation	New feature	Automation	NA
Digital I/Os	New input functions	2 new input functions: Select bit 8-9 for selection of up to 999 Psets	New feature	All	NA
Open Protocol	Disconnecting device	There was a bug in MTF6000 that did not shut down the OP connection correctly if the connection suddenly was lost	Bug fix	Process & Automation	NA
Automatic update	Update configuration files after update	The controller will automatically (if needed) update the configuration files at start up after a firmware upgrade has happened	New feature	All	NA

## 1.10.4 (Hotfix)

Function	Header	Description	Type	License Form	Manual ref.
Batch sequence and Open Protocol	Possible bluescreen on every 4 <sup>th</sup> Batch sequence step	If increment batch or batch sequence is triggered prior to every forth step and a tightening is performed on the forth (eight, twelfth etc.) step with an active Tightening result subscription via Open Protocol; a bluescreen could be triggered.	Bug fix	Process	N/A
TCP/IP Communication	Possible issue on swapping network state	The controller could sometimes fail to re-start TCP/IP communication when switching between static/DHCP configuration mode.	Bug fix	All	N/A
Error: Motor current exceeded	Large tools could get error on loosening	The largest tools (250cNm) could in rare cases get the error "Motor current exceeded" on loosening.	Bug fix	All	N/A

# RELEASE NOTES

Atlas Copco



## 1.10.1

Function	Header	Description	Type	License Form	Manual ref.
Open Protocol Keep alive	Keep alive no longer a requirement for OP over Ethernet	<p>Previously the ACOP required that all users sent a keep alive message each 15 seconds. This means that if one of these keep alive messages got lost, then the connection would shut down. The keep alive requirement has therefor been removed when running OP over TCP (Ethernet) since the TCP connection handles the “keep alive” on its own. Keep alive messages sent over a TCP connection will still get responded to as before.</p> <p><b><i>OP over RS232 still requires the keep alive message every 15 seconds!</i></b></p>	Improvement	Process	Configuration manual MT Focus 6000
Tightening on low speeds	Improved accuracy on lower speeds	Min speeds, especially on high torque, has caused some undershoot problems. The accuracy for lower speeds has therefor been improved to reduce the undershoot and come closer to target.	Improvement	All	Configuration manual MT Focus 6000
ToolsNet 8	Added seating point in ToolsNet 8	It is now possible to see the seating point inside the TN8 graphs	New feature	Process	
Ethernet communication	DHCP Host name	<p>It is now possible to communicate with the MTF6000 controllers over TCP/IP by using the controller serial number instead of their IP address. This will only work if the controller is connected to a network that has a DNS (Domain Name System).</p> <p><b><i>So instead of ex writing “ping 192.168.1.123” we can now write “ping MTF6000-A0123456” and get the same result.</i></b></p>	New feature	Process	Configuration manual MT Focus 6000
MT Tools	ETD MT support	It is now possible to run all ETD MT tools on the MTF6000. The MTF6000 controller must however have a revision C or higher	New feature	Process	