

# UDS ATOM

Dedicated software  
for OT/IT convergence



Reference Manual

**Pusher IBM Maximo**

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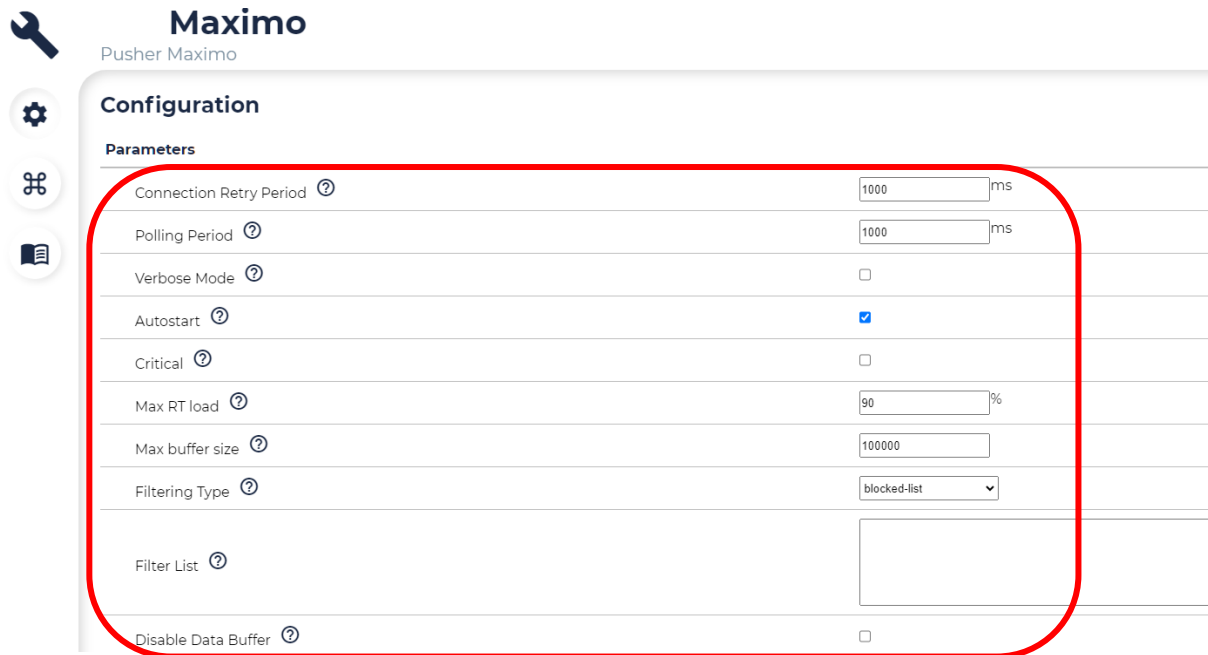


# 1 Introduction

The pusher IBM Maximo can be used to send data from UDS Atom to IBM Maximo using METERS.



## 2 General configuration



**Maximo**  
Pusher Maximo

### Configuration

**Parameters**

Connection Retry Period ?	<input type="text" value="1000"/> ms
Polling Period ?	<input type="text" value="1000"/> ms
Verbose Mode ?	<input type="checkbox"/>
Autostart ?	<input checked="" type="checkbox"/>
Critical ?	<input type="checkbox"/>
Max RT load ?	<input type="text" value="90"/> %
Max buffer size ?	<input type="text" value="100000"/>
Filtering Type ?	<input type="text" value="blocked-list"/>
Filter List ?	<input type="text"/>
Disable Data Buffer ?	<input type="checkbox"/>

Every pusher has a common set of parameters (highlighted in red on the above figure)

- **Connection Retry Period:** Period of time before the pusher tries to connect after a disconnection.
- **Polling Period:** Determines the amount of time that passes before the pusher communicates updated values to UDS Atom
- **Verbose Mode:** Option available that provides additional details as to what the pusher is doing (see [Logbook](../Logbook.md))
- **Autostart:** When *\*Autostart\** is set to true, the pusher will start automatically after UDS Atom startup. If set to false, the sorucer will be in *\*Stand-by\** state.
- **Critical:** When set to true, the pusher will send a notification when it's down.
- **Back up Emission Rate:** The *\*Back up Emission Rate\** is set from 0 to 1. It determines the backup load druing the pusher sleep time. 1 means back up occupies 100% of sleep time.
- **Filtering Type:** When set to *\*allowed list\**, all the sourcers or modules set in the *\*Filtering List\** will be sent. If set to *\*blocked list\**, sourcers or modules in the *\*Filtering List\** will be blocked.
- **Filter List:** Plugins list blocked or allowed to push depending on the *\*Filtering List\**. Enter plugins names separated by a carriage return.
- **Disable Data Buffer:** If *\*true\**, The SeReD is disabled in Pushers documentation for more about SeReD). This means there is no back up buffer in case of client connection loss.



## 3 IBM Maximo Client configuration

### 3.1 Specific configuration

**Maximo**  
Pusher Maximo  
Filter List

Disable Data Buffer	<input type="checkbox"/>
Server Address	<input type="text"/>
Maximo Username	<input type="text"/>
User password	<input type="password"/>
POST Request Timeout in ms	<input type="text" value="10000"/> ms
AssetMeters binding list	<input type="text" value="[]"/>
Meter Data OS name	<input type="text"/>
Time Delay in sec.	<input type="text" value="0"/> s.
Decimal separator	<input type="text" value="DOT"/>
Get origin timestamp	<input type="checkbox"/>
Meter OS name	<input type="text"/>

IBM Maximo client have some specific parameters among the followings:

- **Server Address:** Root web address of Maximo server. For example <maximohost.com>
- **User:** Username to be use to connect to Maximo. The pusher use the native Maximo authentication.
- **Password:** Password to be use to onnect to Maximo. The pusher use the native Maximo authentication
- **Timeout (10000):** Timeout value for the POST request
- **Time Delay:** Time delay to be applied to timestamp in order to avoid timestamps erros in Maximo
- **Decimal Separator:** Decimal separator used to transfer decimal number to Maximo
- **Get origin timestamp:** If True, the timastamp send to Maximo is the timestamp of the origin data (ie source) otherwise the timestamp is given at the moment the pusher send the data
- **Meters Data OS Name:** Name of the Object Structure (OS) storing the Meters Data records. For example, 'MXMETERDATA'
- **Meters OS Name:** Name of the Object Structure (OS) storing the Meters records. For example, 'MXMETER'
- **AssetMeters binding:** This list is dedicated to bind UDS Atom channels to asset meters in Maximo

### 3.1 Tags configuration

Tags are defined in a JSON array of objects like the following:

```
[  
  {  
    "Channel": "331-CA001/TOTAL_H.IN",  
    "AssetNum": "11_5903_733",
```



```
"SiteID": "STEP",  
  "MeterName": "331-CA-001"  
}  
]
```

Each tag is defined by:

Parameter	Type	Required	Description
<b>Channel</b>	string	<b>YES</b>	Name of the UDS Atom Channel you want to send to Maximo
<b>AssetNum</b>	string	<b>YES</b>	Asset number which you want to log data
<b>SiteID</b>	string	<b>YES</b>	Site ID where is the asset
<b>MeterName</b>	string	<b>YES</b>	Metername you want to associate to this channel

*NOTE: If a MeterName mentioned in the MeterBind list doesn't exist, a warning message will be written in the logbook.*



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