

DXKeeper TCP/IP Directives

- Version 1: 2017-08-23
- Version 2: 2022-01-31
- Version 3 2022-08-11
- Version 4 2023-10-08
- Version 5 2023-11-27
- Version 6 2026-06-25
- Version 7 2026-07-01

TCP/IP Port

DXLab applications that respond to directives conveyed via TCP/IP messages utilize a block of adjacent ports. By default, port 52000 is the base of this block. DXKeeper responds to messages received via the second port in the block (default: 52001); Commander responds to messages received via the third port in the block (default: 52002).

To specify a different block of ports,

1. Select the **Defaults** tab of DXKeeper's Configuration window
2. In the **Network Service** panel, specify the **Base Port** of the desired block of ports, and click the **Restart** button

After accepting and executing a directive via TCP/IP, DXKeeper closes and then re-opens the TCP/IP port.

Message Format

Messages are conveyed using ADIF field syntax, e.g.

<FieldName:FieldLength>FieldValue

Every message specifies two fields: the first conveying a command, and the second conveying all parameters

<CommandField><ParameterFields>

<Parameterfields> conveys 0 or more parameters.

Parameters are conveyed using ADIF field syntax..

Messages accepted by DXKeeper

1. Log a QSO specified as an ADIF record. The ADIF record's fields are specified in the message's parameters. Any field not included in <http://www.dxlabsuite.com/dxkeeper/Help/Items.htm> will be ignored.

Example:

```
<command:3>log<parameters:170><CALL:4>P5DX <RST_SENT:3>599 <RST_RCVD:3>599 <FREQ:7>1.84027  
<BAND:4>160M <MODE:2>CW <QSO_DATE:8>20170515 <TIME_ON:6>210700 <STATION_CALLSIGN:5>AA6YQ  
<TX_PWR:4>1500 <EOR>
```

2. Log a QSO specified as an ADIF record and upload it to eQSL.cc. The ADIF record's fields are specified in the message's parameters. Any field not included in <http://www.dxlabsuite.com/dxkeeper/Help/Items.htm> will be ignored.

Example:

```
<command:7>eqslog<parameters:170><CALL:4>P5DX <RST_SENT:3>599 <RST_RCVD:3>599 <FREQ:7>1.84027  
<BAND:4>160M <MODE:2>CW <QSO_DATE:8>20170515 <TIME_ON:6>210700 <STATION_CALLSIGN:5>AA6YQ  
<TX_PWR:4>1500 <EOR>
```

3. Log a QSO specified as an ADIF record and upload it to LoTW. The ADIF record's fields are specified in the message's parameters. Any field not included in <http://www.dxlabsuite.com/dxkeeper/Help/Items.htm> will be ignored.

Example:

```
<command:7>lotwlog<parameters:170><CALL:4>P5DX <RST_SENT:3>599 <RST_RCVD:3>599 <FREQ:7>1.84027  
<BAND:4>160M <MODE:2>CW <QSO_DATE:8>20170515 <TIME_ON:6>210700 <STATION_CALLSIGN:5>AA6YQ  
<TX_PWR:4>1500 <EOR>
```

4. Log a QSO specified as an ADIF record and upload it to both eQSL.cc and LoTW. The ADIF record's fields are specified in the message's parameters. Any field not included in <http://www.dxlabsuite.com/dxkeeper/Help/Items.htm> will be ignored.

Example:

```
<command:11>eqslotwlog<parameters:170><CALL:4>P5DX <RST_SENT:3>599 <RST_RCVD:3>599  
<FREQ:7>1.84027 <BAND:4>160M <MODE:2>CW <QSO_DATE:8>20170515 <TIME_ON:6>210700  
<STATION_CALLSIGN:5>AA6YQ <TX_PWR:4>1500 <EOR>
```

5. Log a QSO specified as an ADIF record and specify parameters that govern its processing:

- ExternalLogADIF – specifies the ADIF record
- UploadQSL – if present and set to Y, upload the logged QSO to eQSL
- UploadLoTW - if present and set to Y, upload the logged QSO to LoTW
- DeduceMissing - if present and set to Y, deduce missing items from the entity, primary subdivision, and available databases
- QueryCallbook - if present and set to Y, query the selected callbook and available databases for mission items
- UpdateQSL - if present and set to Y, update LoTW membership by querying the eQSL database
- UpdateLoTW - if present and set to Y, update eQSL membership by querying the LoTW database
- CheckOverrides - if present and set to Y, check for an override in DXView's Override List
- UploadClubLog - if present and set to Y, upload the logged QSO to ClubLog
- UploadQRZ - if present and set to Y, upload the logged QSO to QRZ

The Parameters field specifies the total length of all parameter fields, from the ExternalLogADIF field onwards.

Example:

```
<command:11>externallog<parameters:447><ExternalLogADIF:279><call:5>4L1FL<mode:3>FT8<qso_date:8>2  
0220130<time_on:6>083217<qso_date_off:8>20220130<time_off:6>083217<band:3>40m<freq:8>7.075939<s  
tation_callsign:5>AA6YQ<my_gridsquare:6>FN42HJ<tx_pwr:3>800<operator:5>AA6YQ<sfi:3>125  
<a_index:2>17 <k_index:1>3 <ant_az:2>45 <ant_path:1>S  
<EOR><UploadQSL:1>Y<UploadLoTW:1>Y<DeduceMissing:1>Y<QueryCallbook:1>Y<UpdateQSL:1>Y<U  
pdateLoTW:1>Y<CheckOverrides:1>Y<UploadClubLog:1>Y<UploadQRZ:1>Y
```

Notes:

- If the [Auto upload box on the QSL Configuration window's Club Log tab](#) is checked, the logged QSO will be uploaded to Club Log whether and UploadClubLog parameter is present or not
- If the [Auto upload box on the QRZ Configuration window's QRZ tab](#) is checked, the logged QSO will be uploaded to QRZ whether and UploadCQRZ parameter is present or not

6. Delete the logged QSO specified by the CALLSIGN, QSO_DATE, and QSO_TIME fields of the ADIF record specified in the message's parameters

Example:

```
<command:9>deleteqso<parameters:170><CALL:4>P5DX <RST_SENT:3>599 <RST_RCVD:3>599 <FREQ:7>1.84027  
<BAND:4>160M <MODE:2>CW <QSO_DATE:8>20170515 <TIME_ON:6>210700 <STATION_CALLSIGN:5>AA6YQ  
<TX_PWR:4>1500 <EOR>
```

7. Filter the Log Page Display to contain QSOs with the specified callsign

Example:

```
<command:5>check<parameters:5>vk9ns
```