



SARA

INSTALLATION REQUIREMENTS

Revision	Date	Description
1	09/26/2011	First draft.
2	10/25/2011	Changed SYSTEM PREREQUISITES
3	11/08/2012	Changed SYSTEM PREREQUISITES and NETWORK REQUIREMENTS
4	03/12/2013	VC REDIST system installation
5	24/04/2013	Changed NETWORK REQUIREMENTS
6	04/09/2013	Changed NETWORK REQUIREMENTS
7	08/06/2015	Modified SARA SERVICE network info
8	07/03/2017	XP no more supported, added SARA ADS-B
9	11/11/2018	Update Framework version and ECHO port

SUMMARY

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1. SYSTEM REQUIREMENTS

- Windows 7 or higher.
- .NET Framework 4.6 installed.
- Internet Explorer 10 or higher.

2. NETWORK REQUIREMENTS

- Working output connection to SARA SERVER IP address (88.36.101.198 for SARA Service).
- Ports 80 opened in all output using TCP protocol.
- Ports 4030, 8080, 8081, 49158 opened in output to the server using TCP protocol.
- Ports 80 opened in follow address:
 - <http://mt1.google.com>
 - <http://mt2.google.com>
 - <http://mt3.google.com>
 - <http://mt4.google.com>
 - <http://tile.openstreetmap.org>
 - <http://andy.sandbox.cloudmade.com>
 - <http://tile.cloudmade.com>

3. INTERNET EXPLORER SETTINGS

- Open internet Options dialog
- Select the **Security** tab.
- Select Trusted **sites**.
- Click on **Sites** button.
- If the case, uncheck **Require server verification (https:) for all sites in this zone**
- Add the web site to the zone: put <http://<SERVER IP ADDRESS>> (or <http://www.sara-service.com>) in the edit box and click on the **Add** button.
- Click on **Close** button.
- Click on **OK** button.

4. CERTIFICATES SETUP

Certificates request must be sent to sara@softtechweb.it (if certificates not jet available).

SoftechCA.cer e **SaraWEB.cer** must be setup as follows.

- Open **SoftechCA.cer** double clicking on it
 - Click on **Install certificate** button
 - Click on **Next** button
 - Select **Place all certificates in the following store**
 - Click on **Browse** button
 - Select
 - Trusted Certification Authorities (XP)
 - Trusted Root Certification Authorities (VISTA/7)
 - Confirm all the next questions.
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- Open **SaraWeb.cer** file double clicking on it.
 - Click on **Install certificate** button
 - Click on **Next** button
 - Select **Place all certificates in the following store**
 - Click on **Browse** button
 - Select **Trusted Publishers**
 - Confirm all the next questions.

5. SARA ADS-B NETWORK SETUP

If it is not allowed all outbound traffic on all ports and incoming traffic on TCP port range from 30000 to 30100 , it is necessary to configure these rules for a correctly use of the ADSB device:

- Port 80 opened in output using TCP protocol towards <http://tgftp.nws.noaa.gov/data/observations/metar/stations>
- Port 123 opened in output using UDP protocol towards Public NTP servers ntp1.inrim.it and ntp2.inrim.it (only in the absence of an internal NTP server)
- Allowed to resolve addresses IP using Public DNS Server 208.67.222.222 and 8.8.8.8 (only in the absence of an internal DNS server)
- Port 587 opened in output using TCP protocol for an SMTP connection
- Port 30081 opened in input using TCP protocol reachable from our Public IP 88.36.101.194