

# **Release Notes for ACE3600 STS Version R20.60**

## **Compatibility:**

- Motorola ACE3600 System Tools Suite 20.60 is compatible with the following operating systems:
  - Windows XP Professional Service Pack 3
  - Windows 7 Professional x64 (64-bit)
  - Windows 10 Professional x64 (64-bit)
- This version supports:
  - ACE1000 – version v1.00 to v3.00 (Security is not supported on this type of CPU).
  - ACE CPU3610 - versions v10.00 to v20.00 (Security is not supported on this type of CPU).
  - ACE CPU3640 - versions v10.00 to v20.00
  - ACE CPU3680 – version v14.00 to v20.00
  - ACE CPU4600 – version v14.00 to v20.00
  - IRRInet-ACE RTUs - versions v11.05 to v20.00
  - IRRInet-M RTUs - versions v6.00 to v6.11
- This version partially supports MOSCAD IP Gateway and MOSCAD family RTUs: MOSCAD, MOSCAD-L, MOSCAD-M. For further information, refer to the ACE3600 STS User Guide.
- To upgrade legacy ladder applications, see STS\_Application\_Note\_-\_legacy\_ladder\_application\_upgrade.htm. It is located in the <STS>\Doc directory. Please note: MOSCAD Ladder applications lower than v5.50 cannot be upgraded directly by the STS. These applications should be upgraded first using the MOSCAD/MOSCAD-L Programming ToolBox to a version above 5.50 and then upgraded to ACE3600 using the STS.
- Windows XP Language Localization:  
The STS uses English language only. It can be installed on a PC localized to many of the languages set in: Regional and Language Options -> Regional Options -> Standards and Formats. The following languages are not supported: Galician, Mongolian(Cyrillic), Punjabi, Syriac, Tatar , Uzbek.

## **New Features:**

- Added inventory items for ACE IP Gateway CPU 4600 with system 20.00; the older 19.00 items moved to the Previous folder.
- Added inventory items for ACE3600 and Irrinet with system 20.00; the older 19.00 items moved to the Previous folder.
- Support up to 15000 RTUs
- Add Search for elements in the system using the Find field in the System tab.
- Add Export Site Properties feature.
- Support delay between sites in download all .

- Generic network and System view is disabled while adding more than 400 RTUs.
- Display number of sites and areas in status bar
- Increase Number of Index to 100
- Support MODBUS Master on ACE1000

### Issues fixed in STS v20.60:

- When removing AI, AO via DNP Master , Number of Frozen counter was changed too.
- The Ethernet advanced link layer defaults of IP port on PI and ETH were not the same.
- STM File attached to SI1, after save project file was attached to PI1
- Change site ID was not saved in the following scenario: create a project and add a site. Attach C application, C application parameter file (\*.29) and ladder application. Place the site in area. Then change the site ID and save - error  
Message will pop up.

### Known issues:

- Exception editing ACE IP GW site table: When viewing the configuration of a site and then opening the Site Table File Manager from the System menu and trying to edit ACE IP GW site table file, it causes an exception.
  - **Workaround:** Open the Site Table File Manager from the system view, select the files and click Edit.
- Application Programmer 16.50 and newer cannot paste rungs taken to the clipboard by older versions of Application Programmer.
  - **Workaround:** Copy rungs from older applications, please open them in the newer AppProg (possibly without upgrade), then copy/paste works as usual.
- Short dates in the "yyyy/MM/dd" format displayed unexpectedly when "Hebrew (Israel)" is specified as date and time format in Windows 7.
  - **Workaround:** Microsoft official fix: <http://support.microsoft.com/kb/2030901>
- STS v16.50 and above, no longer supports download of legacy TEA encryption keys file using the Add-On Manager tool (\*.ind file type). As of STS 15.50 the side-by-side COM information is written in a manifest file which doesn't include the DMS engine information (not installed by STS).
  - **Workaround:** Download this file using one of the following STS versions: v10.50, v11.50, v11.70, v12.50, v13.50, v13.60, v14.50.
- Expiration dates/times for passwords and MDLC encryption keys are saved in STS without time zone information. They are interpreted by the STS as being in the current local time. When keys and users are downloaded, they are shifted to UTC accordingly. This may pose problems when the STS communicates with RTUs whose time zone is different than the one they were downloaded from, e.g. during the time interval around key change time (the STS may use the old key for communication while the RTU uses the new key, or vice versa; the RTU may reject communication with the "expired" password).
  - **Workaround:** Close the project, set your PC time zone to the one set on the PC from which the

- RTUs were downloaded, and open the project again. You will be able to communicate.
- Before starting communication, click the gear icon in the communication bar. Override password and override encryption key (you can select one of existing keys) to the ones that the RTU thinks to be current.
- STS and ICC (version 14.30 or lower)/M-OPC (version 3.10 or lower) cannot use the same MDLC driver and in any case ICC/M-OPC cannot run the MDLC driver in secured mode.
  - **Workaround:** Copy the driver executable from <STS target dir>\Prg\wmdlcdrv.exe to its location under ICC/M-OPC installation.
  - Note: In any case, ICC/M-OPC cannot run the driver in secured mode.
- Working with I/O auto recognition and non-default Power Supply parameters: When downloading a site configuration with I/O auto recognition enabled and non-default parameters in the Power Supply section of the main CPU, the parameters will be downloaded with their default values instead of their modified values.
  - **Workaround:** Define the site configuration and check the I/O auto recognition parameter to allow the RTU to automatically recognize the I/O information.
  - Upload the site configuration from the RTU. During upload, you will be notified that the RTU has auto recognition ON and I/O information. When asked, click Yes to remove the I/O auto recognition in the STS.
  - Change the power supply parameters in the main CPU and download to the RTU.
- Default power supply parameters: When changing the power supply parameters of the main CPU in STS 13.50 or higher and then downloading the site configuration to a site with firmware v12.00 or lower, all parameters return to their default values.
  - **Workaround:** Upgrade the site's firmware to a version higher than 12.x.
- Central file format: The '.out' file that is created by the Application Programmer does not support more than 6 characters for a variable name. Therefore only the first 6 characters are displayed in the Time Tag Logger or in the MCPM Toolbox. To distinguish between two variables in the Time Tag Logger, the first 6 characters of these variables should be unique.
- Dial-up utility with low data speed: The STS Dialup (when the PC is connected to a dialup modem) connection does not function when MDLC communication setup is set to 2400 bps. It is recommended to use 9600 bps data speed for STS dial-up communication.
- Table monitor with refresh rate of less than 2 seconds: It is recommended to use a refresh rate of 2 seconds and above. When refreshing continuously with a refresh rate of less than 2 seconds, the monitor loop is sometimes stopped. This can happen if the PC is busy while trying to acquire an MDLC logical channel.
- Using scaled analog output with PDV & KLV: The current I/O Link does not allow the user to define PDV values for a scaled analog output & input.
  - **Workaround:** Define the same channel as a VO/VI and define the PDV value there. Then, scan only the SAO/SAI variable.
- Checking a file in the Downloader window: If a site has multiple files in the Downloader window and the last file is partly hidden in the screen, trying to check the file will scroll the window instead of checking the file.
- Compilation fails with no proper message when copying into COS bits: When trying to compile an application that contains a rung which tries to perform an illegal copy into a COS parameter in a table,

compilation fails but no proper message is displayed.

- Rung Monitor using LstSit symbol: Monitoring a rung which contains the symbol LstSit (the last index of Site Table) in any of its elements fails.
- Cannot work with two different versions of IRRInet-ACE sites in the same project: When creating two IRRInet-ACE sites from two different versions, for example the first site is v12.00 and the second site is v13.00, the second site is assigned to the ladder IRRIV application (irriv\_ace\_master.b) of the first site. The result is having the v13.00 site assigned to the IRRIV application which was compiled for v12.00. When trying to download this application to a site, v13.00 will be blocked due to version conflict between firmware v13.00 and application v12.00 (Reminder: The application version must always be higher than the firmware version).
  - **Workaround:** First create the site with the higher version (v13.00) and only then the site with the lower version (v12.00). Now site v12.00 will be assigned to the application compiled as v13.00 and the application-firmware version rules will be maintained.
- Keyboard shortcuts cause irrelevant actions: Delete, Paste, Copy shortcuts are defined globally in the STS main menu and so they work where they should not work, e.g. pressing Delete in Site View deletes a site.
- "Data was not found" error: When defining a PLC data type single-column table where the first row has no name, if you try to I/O link this table, you get the error "Data was not found".
  - **Workaround:** Name the cell in the first row.
- Compiling application while monitoring rungs: If you change a database table and compile the change while monitoring rung(s) in the Application Programmer, you cannot exit the monitor, because the CRC is different between the PC and the RTU.
  - **Workaround:** First exit the monitor and then modify the application.
- Upload a new IRRInet-M site: When trying to upload a new IRRInet-M site with Mixed I/O expansion fails, a corrupted site is created in the STS. The upload process fails only when the expansion type is Mixed I/O, regardless of the main board type.
  - **Workaround:** Drag an IRRInet-M RTU from the inventory and define the correct Main and Expansion boards according to the actual types in the RTU you wish to upload. Open the site and click on the Upload button.

## Notes

- Redundancy is not supported in CPU 3610 and CPU 3640 (since STS 15.50).
- Downloading the ACE1000 file system from STS is not supported. When you change the ACE1000 RTU version from v1.00 to v1.50, you are also required to open the Web Easy Configurator tool, install and deploy file system v1.50.

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