



Product Type: *icons*® and ASC/3

Reference: AN2110
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Replicate the ASC/3 Database

Purpose

This application note gives procedures to replicate the ASC/3 Controller database with *icons* or NTCIP Data Manager.

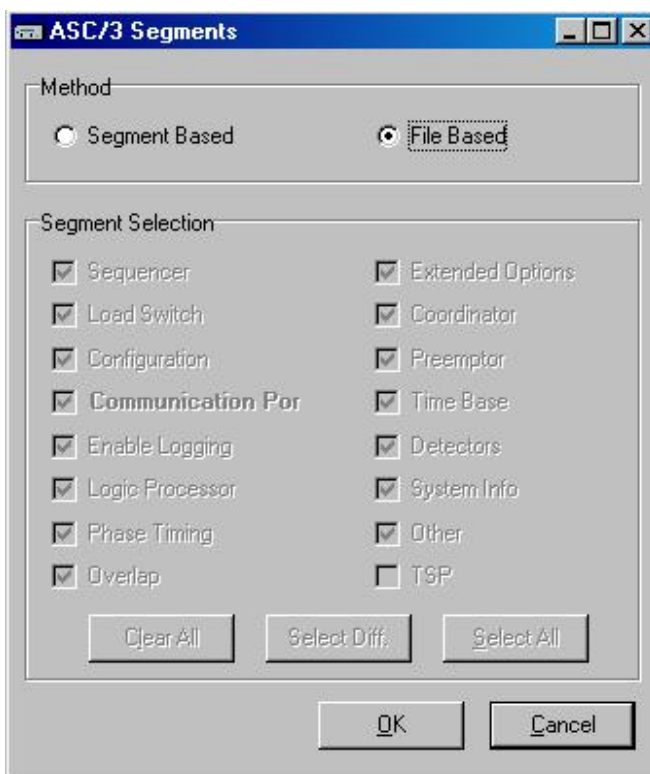
Introduction

Recent changes have been included in *icons*, NTCIP Data Manager and the ASC/3 controller with which you can replicate the entire ASC/3 database. With previous versions, you could only upload the parameters and database values which were editable in the controller front panel and ASC/3 Editor; non-editable fields such as the controller I/O mapping, extended features and security configuration were not included in the upload.

Applications

With the ASC/3 editor for *icons* and NTCIP Data Manager, you can select a method to upload all the files. To upload all the files:

1. Go to the “ASC/3 Segments” dialog box.
2. In the “Method” box, select the “File Based” radio button, as shown below.





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3. To actually create files from within the ASC/3 editor in *icons* or NTCIP Data Manager:
 - a. Perform a File Based upload.
 - b. The data is saved in the SQL Server database in the format of the files in the controller.
 - c. Within the editor, there is a separate step that you could do to create these files, i.e. the Export Data File operation.

NOTE: You could also use SQL Server to export data also but that is a much more advanced way of generating the files.

When you select the “File Based” upload, the software requests all data contained in each of the ASC/3 database files. With this:

- You save an exact duplicate of the controller database files.
- Later, you can create and/or retrieve these files with the ASC/3 Editor’s export and import features.
- You can share these controller files with other users including those with Aries.

NOTES

- During normal operations, it would NOT be practical to use the File Based method to retrieve controller data because it would take a long time to upload the additional files.
- Support for File Based download was considered, but because of some potential safety issues, this was not implemented.

Advantages and Disadvantage of the Segment Based Upload Method

Advantages

- With the Segment Based method, you can:
 - Check the “Segment Selection” boxes to select the segments to upload and
 - Select the “Select Diff.” button to automatically select only those segments that are different.
- When you use the Segment Based method, you dramatically reduce the upload time.
- The Segment Based method tells you which segments are different than those contained in the database. Any segment that has differences is in bold font.

Disadvantage: With the Segment Based method, you only get data that is editable in the ASC/3 editor, which limits its ability to accurately reproduce the entire controller database through the export feature.

Versions

The minimum versions where support for file replication has been incorporated are show in the table to the right.

Application	Version
ASC/3 Controller App.	2.43.10
<i>icons</i>	3.12.1
NTCIP Data Manager	3.12.1