



## Product Type: ASC/3 and ASC/3-2070 Controller Software Part Numbers and Database Management

Reference: AN2084  
Date: 24 October 2007

### Introduction

This application note gives the important properties of the **ASC/3** software database file structure, management of this database, and related part numbers of the **ASC/3** and **ASC/3-2070** software group.

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### Database File Structure

**ASC/3** on NEMA hardware and **ASC/3-2070** on 2070 hardware are both designed to agree with **ASC/3** database specifications. The **ASC/3** database consists of a set of files. Authorized personnel use various software tools to create the database set that you can download with the correct method and protocol for those software tools. This document gives the primary properties of the database set creation, modification and management.

The **ASC/3** database is a set of files that you can configure and load to the controller with different procedures. The table below lists and describes the database files.

### ASC/3 Database Files

| Filename on PC  | Filename on Controller                       | Description  |
|---|--|--|
| <ul style="list-style-type: none"> <li>•Nxxxx.db for <b>ASC/3</b><sup>1</sup></li> <li>•Axxxx.db for <b>ASC/3-2070</b> 2A module<sup>1</sup></li> <li>•Bxxxx.db for <b>ASC/3-2070</b> 2B and 2N Modules<sup>1</sup></li> <li>•AnyName.db can be used. Conversion occurs during download.</li> </ul> | ASC3.DB                                      | Copied to the controller as ASC3.DB, and becomes the current DB. This is the active primary database for the controller. It contains timing, configuration, and I/O mapping information.   |
|   | Nxxxx.DB<br>OR<br>Axxxx.DB<br>OR<br>Bxxxx.DB | Copied to the controller with the same filename. If a file on the controller has this name, the controller uses it as the default database. If there are multiple default databases of the same type, the controller selects the default database with the highest number. |
| AnyName.DT<br>(starting with 2.39.xx and after)   | ASC3.DT                                      | Secondary database that contains optional feature or extended feature such as TSP, IM  |
| AnyName.DBS<br>(Optional file)  | usercfg.DB                                   | Security file that is used to determine who has access or not. Not needed if no access control is necessary.   |



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| Filename on PC                 | Filename on Controller | Description   |
|--------------------------------|------------------------|---|
| AnyName.EXT<br>(Optional file) | ASC3.DB                | Extended Logic Processor file that <b>ASC/3</b> uses to manage groups of Logic Processor Statements. Not needed if no Logic Processor Statement is necessary above Statement 100. |

<sup>1</sup>xxxx is a 4-digit number from 3001 to 9999 that identifies a customer. Cabinet Engineering formally gives and manages this number.

### Database Creation and Modification

There are different tools to create, manage, download (to the controller) and upload (from the controller) the **ASC/3** database. The table below lists the tools to manage a database.

### ASC/3 Database Files

| Software Tool                              | Description   | Communication Method                     |
|--|---|--|
| <b>ASC/3</b> Configurator                  | Standalone software that can create and modify ASC3.DB and ASC3.DT  | Through <b>ASC/3</b> software installers |
| <b>ASC/3</b> SW Installer                  | Standalone software that downloads application software, database, OS, and raw files to <b>ASC/3</b> NEMA controller hardware. It can upload a database set and logs. All database files must be in a single folder with no more than 1 type per file.    | Serial Z-modem or Ethernet FTP           |
| <b>ASC/3-2070</b> SW Installer             | Standalone software that installs Application software, database, OS, and raw files to 2070 controller hardware. It can upload a database set and, in the future, logs. All database files must be in a single folder, with no more than 1 type per file. | Serial Z-modem or Ethernet FTP           |
| <b>ASC/3</b> File Security Manager Utility | Creates and manages <b>ASC/3</b> and <b>ASC/3-2070</b> front panel security access. You can download a security file generated from this utility through the software Installer, to allow security to take effect.  | Through <b>ASC/3</b> software installers |
| <i>Icons</i> ®                             | Econolite Central SW  | NTCIP over Serial or Ethernet            |



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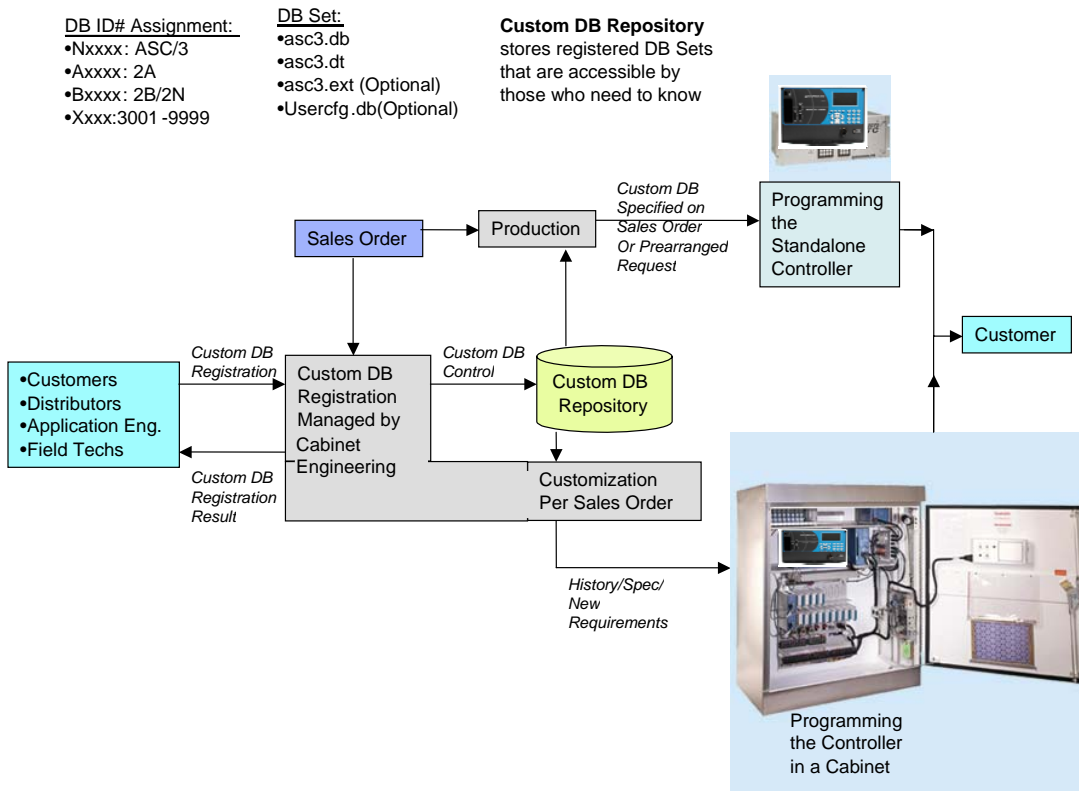
| Software Tool                                  | Description   | Communication Method          |
|--|---|-------------------------------|
| NTCIP Data Manager                             | Econolite standalone Data Manager. With the special version, you can also import and export Logic Processor Statements from one database to another database. | NTCIP over Serial or Ethernet |
| <b>Aries</b>                                   | Econolite Central SW over ECIPIP  | Serial via <b>ASC/2M</b>      |
| <b>Aries</b> Direct Connect                    | Econolite standalone Data Manager over NTCIP  | NTCIP over Serial or Ethernet |
| Third-Party Package Unified Controller Manager | Standalone Data Manager from Transcore  | NTCIP over Serial or Ethernet |
| Third-Party Package Transuite                  | Central software from Transcore   | NTCIP over Serial or Ethernet |
| Third-Party Package MIST                       | Telvent Farradyne central software (TBD)  | NTCIP over Serial or Ethernet |



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### ASC/3 & ASC/3-2070 Database Management Flow





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### ASC/3 and ASC/3-2070 Software Part Numbers

**ASC/3** traffic software technology is the same for both **ASC/3** NEMA Hardware and 2070 hardware. Because the software is almost the same, the part numbers for controller software that runs on these 2 hardware platforms are also almost the same. Refer to the table below.

### ASC/3 and ASC/3-2070 Software Part Numbers

| Control Part #                  | Description   | Note   |
|---------------------------------|---|--|
| <b>ASC/3 NEMA Related Parts</b> |   |  |
| 100-1082-2xx                    | <b>ASC/3</b> software, where xx is the ECO software version number of the form 2.xx.00.                             | With 2. <b>40.00</b> , order 100-1082- <b>240</b> .                                    |
| 100-1082-5xx                    | <b>ASC/3</b> software CD, where xx is the ECO software version number of the form 2.xx.00.                          | With 2. <b>40.00</b> , order 100-1082- <b>540</b> .                                    |
| 100-1047-2xx                    | <b>ASC/3</b> OS software version 1.08.00, 60 Hz version   | USA  |
| 100-1105-2xx                    | <b>ASC/3</b> OS software version 1.08.00, 50 Hz version   | International  |
| 100-1095-501                    | TSP Datakey® Token — necessary for Transit Signal Priority (TSP) operation  | You can also use this Datakey® to store a backup of the controller configuration files |
| 100-1095-502                    | IM Datakey® Token — necessary for Intersection Monitor (IM) operation   | You can also use this Datakey® to store a backup of the controller configuration files |
| 100-1095-503                    | TSP & IM Datakey® Token — necessary for TSP & IM operation  | You can also use this Datakey® to store a backup of the controller configuration files |
| <b>ASC/3-2070 Related Parts</b> |   |  |
| 117-1082-2xx                    | <b>ASC/3-2070</b> software, where xx is the ECO software version number of the form 22.xx.00.                       | With 22. <b>40.00</b> , order 117-1082- <b>240</b> .                                   |
| 117-1082-5xx                    | <b>ASC/3-2070</b> software CD, where xx is the ECO software version number of the form 22.xx.00.                    | With 22. <b>40.00</b> , order 117-1082- <b>540</b> .                                   |
| 117-1052-001                    | <b>ASC/3-2070</b> Keypad Overlay  |  |
| 117-1053-2xx                    | 2002 OS Image for 2002 version of 2070 hardware. Necessary for <b>ASC/3-2070</b> software support on 2002 hardware. |  |



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| Control Part #                           | Description   | Note                                  |
|--|---|---------------------------------------|
| 117-1054-2xx                             | 1999 OS Image for 2002 version of 2070 hardware. Necessary for <b>ASC/3-2070</b> software support on 2002 hardware. |                                       |
| 100-1096-501                             | <b>ASC/3-2070</b> TSP Datakey® Key — necessary for Transit Signal Priority (TSP) operation                          | You can also use this as a Data Token |
| 100-1096-502                             | <b>ASC/3-2070</b> IM Datakey® Key — necessary for Intersection Monitor (IM) operation                               | You can also use this as a Data Token |
| 100-1096-503                             | <b>ASC/3-2070</b> TSP & IM Datakey® Key — necessary for TSP & IM operation  | You can also use this as a Data Token |
| <b>Instruction Manuals and Utilities</b> |   |                                       |
| 100-0903-001                             | Programming Manual for <b>ASC/3</b> and <b>ASC/3-2070</b>   |                                       |
| 100-0903-002                             | <b>ASC/3</b> Hardware Maintenance Manual  |                                       |
| 100-0903-003                             | Transit Signal Priority (TSP) User Guide  |                                       |
| 100-0903-005                             | Intersection Monitor ( <b>ASC/3-IM</b> ) Quick Start Guide  | Only for <b>ASC/3</b>                 |
| 100-0903-004                             | <b>ASC/3</b> Configurator Manual  |                                       |
| 100-1104-001                             | <b>ASC/3</b> Configurator   |                                       |
| 100-1081-001                             | <b>ASC/3</b> Security File Manager  |                                       |

xx is the version # that can be changed. For the latest version, use xx.