



NovaStar 5
Upgrade 5.1.0.0
August 23, 2012

The NovaStar 5 version 5.1.0.0 upgrade is now available. This upgrade provides many new features:

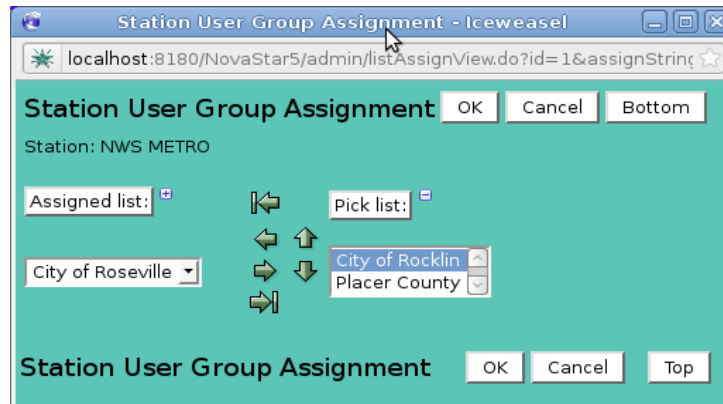
- User groups limit access to the database.
- Users can keep maps, plots, reports private or share with group members.
- Supervisor user role added; supervisors can modify maps, plot, reports for any user in their group.
- Precipitation gage incremental storage as rating data for faster period rainfall computations.
- Database modification is supported on replicated nodes.
- Database updates from web pages verify the transaction before leaving page.
- Display filters allow multiple selection in pick lists.
- Multiple item selection uses popup showing assigned and available selections.
- Alarm time added to alarm table to record when alarm was detected for historic data alarm triggers.
- Database replication upgrade to Slony version 1-2 with support of up to 10 nodes.

Steps to upgrade your system to NovaStar 5.1.0.0:

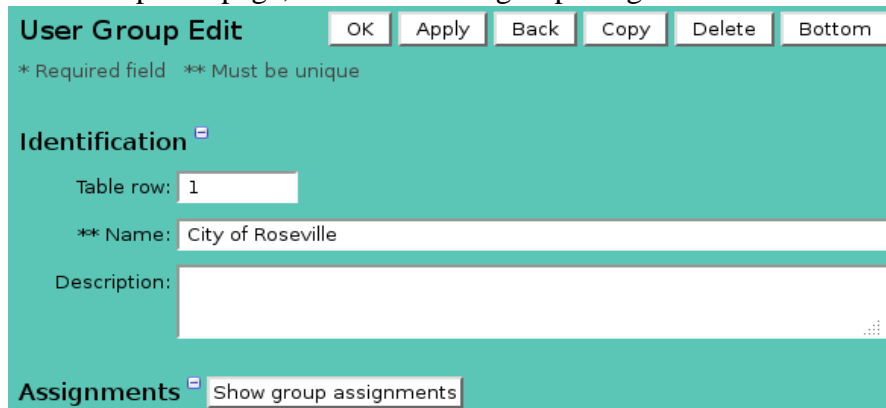
1. Update NovaStar5 to the latest version: 5.0.2.15. Do this with the command: `sudo nsupdate`. If your `nsupdate` command does not work, try: `sudo /usr/ns/bin/nsupdate`. If you are already at version 5.0.2.15, then type Y and press [Enter] to force the update.
2. Install the NovaStar5 upgrade version 5.1.0.0 with the command: `sudo nsupgrade`. The upgrade command will drop the database replication.
3. Reboot after the upgrade installation completes.
4. Repeat this procedure on all replicated nodes.
5. Reinstall database replication from the master node with the command: `sudo nsdbrep setup`
6. Compute incremental rainfall (this may take some time) with the command: `nscomputerainfall -e`
7. The upgrade process is finished.

User groups

- Limited database access is not enabled until a user group is defined.
- Administrators are not limited in the database access but can specifically limit displays to groups.
- Users and database table rows can be assigned to one or more groups.
- The following tables have limited group access:
 - stations, station_types, points, device_types, equations, rating_tables, alarm_actions, alarm_groups, alarm_pagers, alarm_triggers, alerttalk3, mapdisplay, maps, plots, reports.
 - calibrations, rating assigns inherit groups from point.
 - alarms inherit groups from alarm_triggers.
- Add groups to the system from the NovaStar5 menu under Users → User Group List.
- Assign a group to a database table from the table edit page or the user group edit page:
 - On the table edit page, click the Assign/Remove groups button to assign groups. The group assignment pop-up window is displayed:



- Click to move all groups from the pick list to the assigned list.
 - Click to move selected groups from the pick list to the assigned list.
 - Click to move selected groups from the assigned list to the pick list.
 - Click to move all groups from the assigned list to the pick list.
 - Click to decrease the pick list length.
 - Click to increase the pick list length.
 - Click to change drop down list from single to multiple select.
 - Click to change drop down list from multiple to single select.
 - Click OK to save the selections and close the window.
 - Click Cancel to close the window with no save.
- On the User Group Edit page, click the Show group assignments button:



A screenshot of a web application form titled "User Group Edit". At the top right, there are buttons for "OK", "Apply", "Back", "Copy", "Delete", and "Bottom". Below the title, there are instructions: "* Required field" and "** Must be unique". The form is divided into two sections. The "Identification" section includes a "Table row:" field with the value "1", a "** Name:" field with the value "City of Roseville", and a "Description:" field. The "Assignments" section has a "Close" button and a "Station:" field with a dropdown menu showing "NWS METRO" and an "Add" button.

- The page is redrawn with the table assignments to the groups in drop down lists. Click the Add button to assign or remove from the group.

A screenshot of a dialog box titled "User Group Station Assignment" in a browser window. The browser's address bar shows "localhost:8180/NovaStar5/admin/listAssignView.do?id=1&nameDetail=sta". The dialog box has buttons for "OK", "Cancel", and "Bottom" at the top. It features two lists: "Assigned list:" on the left and "Pick list:" on the right. The "Assigned list:" contains a dropdown menu with "NWS METRO". The "Pick list:" contains a list with "FOLSOM LAKE" and "Carnegie SVRA". Between the lists are four arrow buttons: a left-pointing arrow, a right-pointing arrow, an up-pointing arrow, and a down-pointing arrow. At the bottom of the dialog box, there are buttons for "OK", "Cancel", and "Top".

- Use the assign/remove buttons as described above to change the group assignments.