Advanced Scheduling With AURORA

Aurora is the world's leading intelligent planning and scheduling software solution that utilizes advanced artificial intelligence. It was originally developed to help NASA tackle difficult, mission- critical scheduling problems with complex constraints by incorporating the judgment and experience of expert human schedulers. Aurora is particularly effective when applied to large projects with complex constraints and resource requirements. Many organizations choose Aurora to manage operations more efficiently compared to any other scheduling solution, including Microsoft Project and Primavera P6.

Once Aurora has created a schedule, it is displayed in a series of graphical displays that allow the user to see the resource allocations and the temporal relationships among the elements. These displays also allow the users to edit the schedule directly and easily.

Features

Resource Requirements - Associate resource requirements with both resources and activities to control their needs and preferences.
Constraints - Define temporal constraints, resource constraints, and spatial constraints to regulate the relationships among the scheduled elements.
Reports - Create reports of resource usage that can then be loaded into a standard spreadsheet.
Calendars - Associate a calendar with an activity or resource to dictate its standard schedule, and any exceptions that schedule might have. These may include yearly holidays or one-time events.
Graphical Schedule Display - The resulting schedule may be viewed either by resource or temporal relationships. The results can be manipulated directly on the display.
• Update the schedule quickly and easily by graphically editing it from the display using standard drag and drop functionality or click on elements to make broader editing changes.
• Expand the schedule easily by creating new activities and resources from the schedule display

Benefits

1. Ability to handle short-duration tasks, and update buffer reports on any timeframe (e.g., once every hour).
2. Ability to handle multi-projects of huge size and complexity.
3. Buffer reports can be run as frequently as desired even with the largest models.
4. Ability to do carry out forward, backward, and mixed mode scheduling.
5. Intelligent scheduling that can determine shorter critical chains.
6. Sophisticated constraints beyond human capabilities - ability to handle physical space constraints, including taking into account the creation and elimination of the space during the project; as well as concurrent and non-concurrent constraints.