



# DISCON Specialists

EA Enabling Techniques

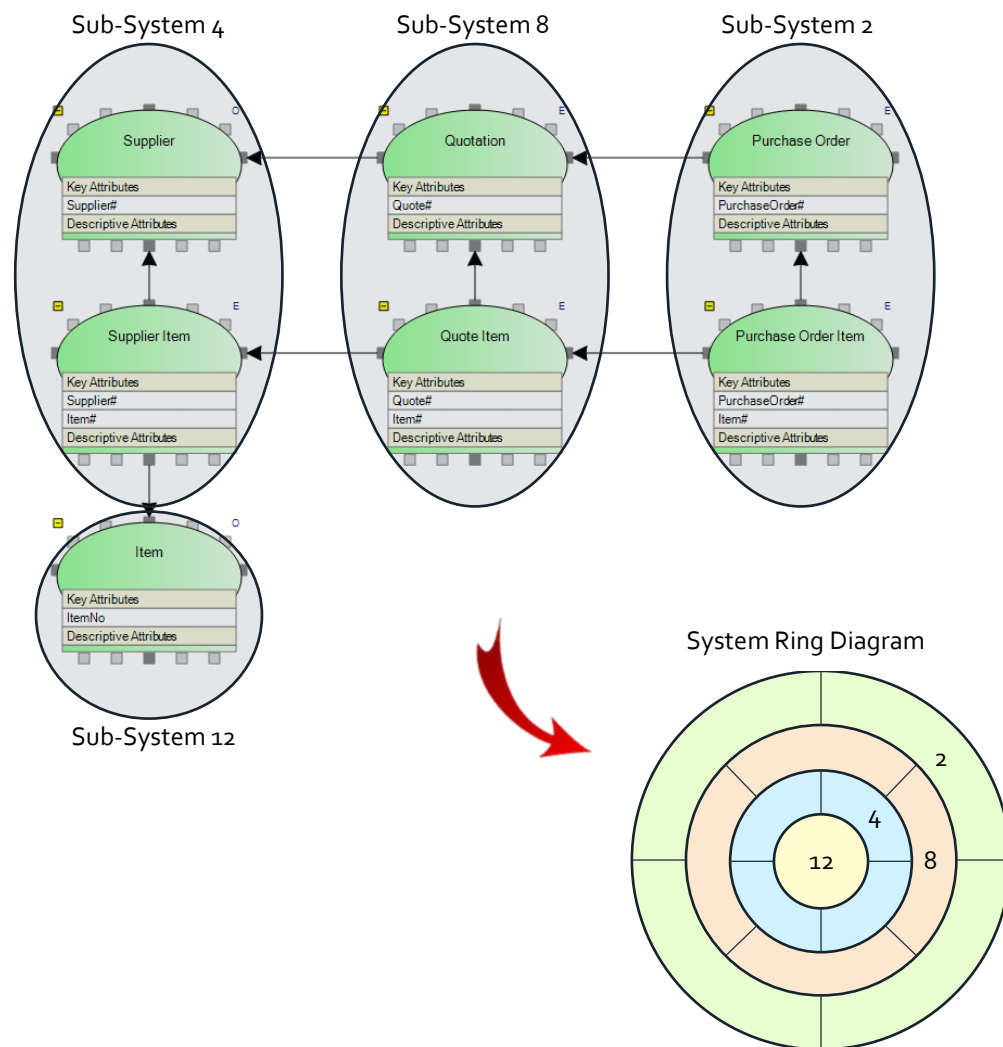
## System Ring Diagram

### Reason for Existence

From the extract of the data model below we can observe that a data model can be divided into subsystems as shown. These sub-systems are derived using a technique called Functional Effect Backtracking. Functional Effect Back-tracking develops sub-systems based on the dependencies between events and objects.

If the extract from the data diagram is studied, four sub-systems are identified. They are called subsystems 2, 4, 8 and 12. Architectural priorities define that sub-system 12 needs to be in place before subsystem 4 can be implemented. This is derived from the fact that sub-system 12 only has sub-systems dependent on it and is not dependent on any other sub-systems from an existence point of view. In plain graphical terms it means that sub-system 12 only has dependency arrows coming into it, and no arrows going out. By using the same approach the architectural priority of sub-system 4 will then be greater than sub-system 8, meaning that sub-system 12 has to be in place, followed by sub-system 4, after which sub-system 8 can be initiated. Sub-system 2 is then deployed last as it is dependent on sub-system 8.

The System Ring Diagram is the preferred business system construction sequence for management communication purposes.



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