

ELEMENTS OF THE PROCESS

- NODES
- LINKS OR CONNECTIONS
- ACTIONS
- ROLES
 - PEOPLE
 - GROUPS
- CONDITIONS

ELEMENT: CONDITIONS

- Wide-ranging and significant to all other elements
- An evaluation of the current state of owner and/or related records
- Multiple conditions can be associated with each Node, Link, Action, etc.
 - Result is Binary (TRUE/FALSE)
 - Result can be quantity based (Any / All / n)
 - Individual Conditions can be Absolute
 - These conditions must pass if the entire set is to pass
 - Regardless of Quantity selection

NOTES ON NODES

- Each node supports very different activities
- Some are higher-order actions that could be accomplished in basic nodes but with less overhead
- All except Start have one Input Port
 - All input ports can have multiple links associated with them
- All except Stop have one or more Output Ports
 - Single Positive/Negative Output : Allows only one output link to another Node
 - Positive is most common as Negative Ports are default routes when there are no other options
 - Multiple Positive Output: Allows one or more positive links to other nodes
 - Used with Matrix or Decision Nodes

ELEMENT: NODES

- Different Types
 - START : The Highlander
 - CONDITION: The fork in the road
 - TASK: Giving the user something to do
 - WAIT : A pause to reflect
 - ACTION : Makes things happen
 - MATRIX : The Cascading Condition
 - DECISION : e pluribus unum
 - SUB-PROCESS : A Modular Approach
 - STOP: We're Done! I hope you enjoyed the trip.

START NODE ("THERE CAN BE ONLY ONE." – C. MCCLOUD)

- ONLY one (1) allowed per process (and sub-process)
- Logical start to the Workflow in execution
- Unconditional
- Single Positive Output

CONDITION NODE

- There can be many
- Evaluates a Primary set of Conditions
- Has two Output ports
 - TRUE = Single Positive Output
 - FALSE = Single Negative Output
- Restriction
 - Cannot have self-referencing Links (infinite loops are bad)

TASK NODE

- Issues an Assignment
 - To a Role (Person or Group)
- Can issue an Email Notification *
- Bypass Conditions *
 - Data shows task is already completed
- Time Limit *
 - Used for escalation assignments
- Pauses Instance
 - Assignments require User Interaction
- Single Positive Output

WAIT NODE

- Pauses the Active Instance until:
 - Time Limit (waiting Period) has elapsed
 - Release Conditions are met
 - Or Both
- Scheduled Job Evaluates these instances
- Single Positive Output

ACTION NODE

- Each Action Node can have multiple Actions
 - Execute according to sequence
 - Can be conditional
- Many variations
 - Set Value (owner, related, or process variable)
 - Run Method (Function or Procedure)
 - Set Alert
 - Send Notification
 - Set Session State (APEX specific future idea)
- Single Positive Output

MATRIX NODE

- Call it a Cascading Condition
- Single Negative Output (Default if no other)
- Multiple Positive Output
 - Each Link SHOULD be Conditional
 - Evaluated in sequence
 - First to evaluate TRUE is the path taken
 - Negative Path taken if none of the positive links evaluate to TRUE

DECISION NODE

- Like the Task Node
- Issues an Assignment
- Presents user with a list of possible choices, that they select one from
 - Choices represent links away from the node
 - Can be Conditional
 - Node can be set to Continue if only one choice is available
- Time Limit for Escalation Assignments
- Multiple Positive Output

SUB-PROCESS NODE

- Node in the Parent Process that points to one or more Processes to execute
 - Parallel
 - Each is started in sequence,
 - When one completes or pauses the next is fired
 - All must complete before node is released
 - Tangent
 - Starts as a separate Workflow Instance with no return to the Parent Process
- Sub-Processes can have all of the same nodes as a Main process
- Single Positive Output

STOP NODE

- Logical Stop to the Process
- Causes the Workflow Instance to stop processing and close
- Can be more than one Stop node in a workflow process

NODE LINKS

- Connective Tissue of the Process
- Tell the process where to go next
- Can be Conditional
 - Matrix & Decision Node Links

BUT, WHAT'S IT CALLED?

- AWF: APEX Workflow (working title)
- Domino
- Cascade
- Conductor
- Transit
- Relay

