How to Sync Parent-Child Tasks in Asana

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This article describes how to synchronize parent-child task relationships (subtasks) between Asana and other systems.

Parent-Child Tasks: Asana supports subtasks linked to parent tasks. The parent task GID is stored in the `parent_task_gid` custom field.

Outgoing sync (Asana → Remote system)

To send parent-child relationship information from Asana:

```
replica.customFields.parent_task_gid = entity.customFields.parent_task_gid
```

Incoming sync (Remote system → Asana)

To receive parent-child relationship and establish hierarchy in Asana:

```
if(replica.parentId){
   def localParent = syncHelper.getLocalIssueKeyFromRemoteId(replica.parentId.toLong(), "issue")
   if(localParent){
      issue.parentId = localParent.id
   } else {
      throw new com.exalate.api.exception.IssueTrackerException(
         "Subtask cannot be created: parent issue with remote id " +
         replica.parentId + " was not found"
      )
   }
}
```

Important: Parent tasks must be synchronized before child tasks. If a child task syncs before its parent exists, the synchronization will fail with an error.

More information

- How to Sync Tasks in Asana
- How to Sync Custom Fields in Asana
- Asana Fields and Entities Available for Synchronization

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