



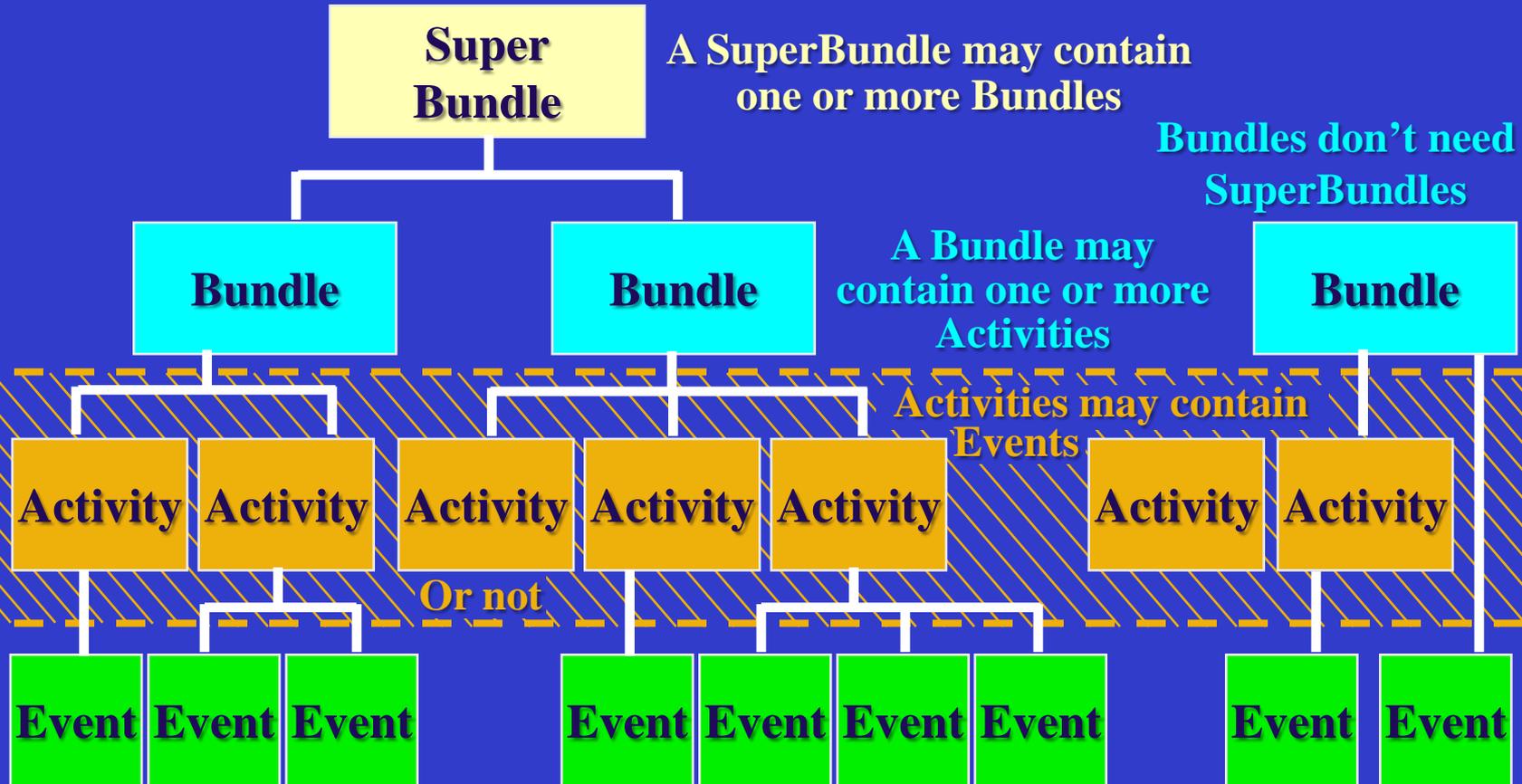
# The TAILS Data Model

**T**racking  
**A**nd  
**I**ntegrated  
**L**ogging  
**S**ystem

# TAILS: The Data Model

## Overview

The Data Model is organized into a four-level hierarchy



Activities  are the only required component

You can simply log an Activity

Events may be logged directly in Bundles

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# TAILS: The Data Model

## Activities

**ESFO Activity**  
**(Section 7 Consultation - 21420-2001-F-0133)**

**Consultation Code = 21420-2001-F-0133**  
**Consultation Title, Description, Type,**  
**Location, Action Type(s), Associated File(s)**  
**Dates, Species, Biological Conclusion(s), Staff, etc.**

**Activity: An overall work activity taken by a Field, Regional or the Washington Office in response to a request for technical assistance or an official opinion. This work has many forms, including Section 7 consultations, permit reviews, or spill responses, to mention only a few.**

**Title: A concise textual identification of the consultation, activity or incident.**

**Example: El Paso Electric Company 2.6 mile powerline from Commerce power plant to El Raton, NM.**

**Type: (Consultation Type). Examples: Formal, Informal, Technical Assistance.**

**Action/Work Type: A category of the physical actions identified by the Action Agency or typically assumable with this circumstance or development actions.**

**Examples: Development – Commercial, Agriculture – Pesticide Use, Transmission Line -Electrical** Multiple Action/Work Types can be Identified for each TAILS Activity Record. The master list is customizable by Module<sub>3</sub>

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## Events

ESFO Activity



(Section 7 Consultation - 21420-2001-F-0133)

Event: Generally an initiating or interim instance of a request for our assistance, internal actions taken as part of the overall response and juncture decision points throughout the Activities life, such as meetings, telephone calls, literature reviews, site visits, document exchanges, determinations or similar instances associated with an Activity or Activities.

### An optional feature

Used in developing the logical sequential record of Service actions and decisions.

Event 1  
Date: 4/12/2001

Event 2  
Date: 4/19/2001

Event 3  
Date: 5/6/2001

Event 4  
Date: 6/1/2001  
Type: Correspondence / Communication Sent  
Description: Evaluation letter sent to Army Corps  
Staff: Hogan  
Documents: K:Sect7:2001-0133:Eval\_1.pdf

### Examples:

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## Bundles

**A Bundle**  
(TAILS Bundle Code: 21420-2001-B-003)

**TAILS Bundle Code: 21420-2001-B-003**  
**Bundle Name, Description and  
Activities to associate with Bundle**

TAILS Bundles are designed to allow two or more TAILS Activities to be associated with one another.

**Bundle:** An inter- or intra-module bundling of Activities. Bundles may be derived from real circumstances (development proposals, regulatory actions, or planning processes) or any set of circumstances that makes sense to the user.

**Example:**

### Bundle

**TAILS Bundle Code: 21420-2001-B-003**

**Bundle Title: Barker Dam**

**Bundle Description: Reconstruction of hydro dam at Barker Reservoir.**



## Bundles

**Why make a Bundle? When it makes sense to you!**

To acknowledge and formalize a relationship  
between two or more Activities.

**Why NOT make a Bundle? If the relationship exists in data!**

If you've selected data attributes that ALONE define  
the relationship you wish to acknowledge and retain

**Then DON'T make the Bundle**

For example

If I log an Activity and select the county it's in and want to  
see the relationship with the other Activities in that county

**I can query by county or view the county report  
and get to all the Activities in that County  
and thereby, I have no need to make a Bundle**

## Bundles

It might be that I logged two Activities:

A Section 7 and its associated Federal Activity

For each, I selected:

- The same County,
- The same Species,
- The same Staff

I could see their relationships in:

- The 'Activities by County' Report,
- A query on that Species,
- The 'Activities by Staff' Report
- Or even in combinations of these

But

- These Reports/Queries would include other Activities
- And I really need to understand that this one Activity has a tight relationship with this one other Activity
- And the data relationships alone are not sufficient enough

**So, I want to Bundle them.**

**It makes sense to me !**

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# TAILS: The Data Model

## Logging degree of detail (options)



### Field Office A

Logs Activities, and always  
Associates Events to Activities  
Associates Activities to Bundle

Bundles and Events\* are not required \* See how to Log Fed Activities



### Field Office B

Logs Activities

Use of Bundles/Events need not be consistent within ESFO



### Field Office C

Logs Activities  
and sometimes

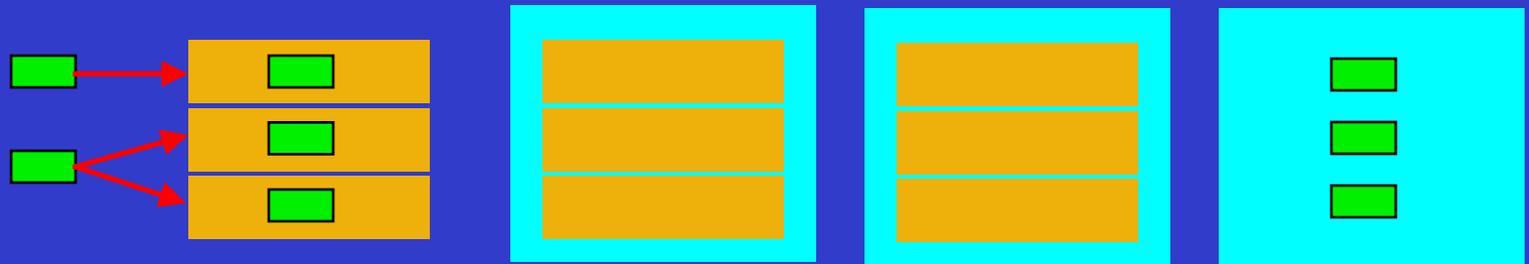


Associates Events to Activities  
and/or  
Associates Activities to Bundles

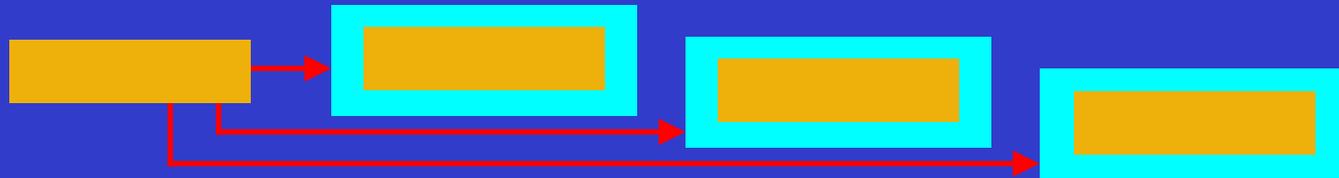
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## Flexibility

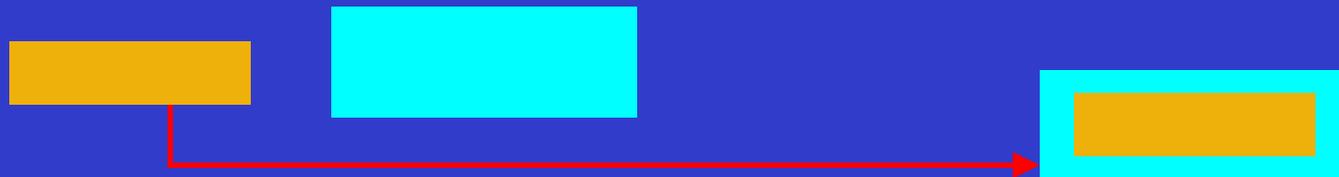
- ◆ An Event, if defined, can associate with one or many Activities.
- ◆ Bundles can be defined & associated before or after Activities
- ◆ Bundles can be defined without associating Activities
- ◆ Bundles can have Events without associating Activities



- ◆ An Activity may associate to many Bundles simultaneously



- ◆ Associations can be changed/broken, with/without deleting Bundles



# TAILS: The Data Model

## SuperBundle

May be used to Bundle Bundles (and all they contain)

**TAILS SuperBundle Code: 21420-2005-SB-001**

**SuperBundle Title: Barker Dam and Bridge**

**TAILS Bundle Code: 21420-2001-B-003**

**Bundle Title: Barker Dam**

**Bundle Description: Reconstruction of hydro dam at Barker Reservoir.**



**TAILS Bundle Code: 21420-2005-B-056**

**Bundle Title: Barker Bridge**

**Bundle Description: Bridge Construction over lower Barker River near Dam**



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