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1 example1 Theory

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Parent Theories: aclDrules

1.1 Datatypes

```
commands = go | nogo | launch | abort  
staff = Alice | Bob | Carol | Dan
```

1.2 Theorems

[example1Theorem]

```
|- (M,Oi,Os) sat Name Alice says prop go =>  
(M,Oi,Os) sat Name Alice controls prop go =>  
(M,Oi,Os) sat prop go
```

[example1TheoremA]

```
|- (M,Oi,Os) sat Name Alice says prop go =>  
(M,Oi,Os) sat Name Alice controls prop go =>  
(M,Oi,Os) sat prop go
```

[example1TheoremB]

```
|- (M,Oi,Os) sat Name Alice says prop go =>  
(M,Oi,Os) sat Name Alice controls prop go =>  
(M,Oi,Os) sat prop go
```

[example2Theorem]

```
|- (M,Oi,Os) sat Name Alice says prop go =>  
(M,Oi,Os) sat Name Alice speaks_for Name Bob =>  
(M,Oi,Os) sat Name Bob controls prop go =>  
(M,Oi,Os) sat prop go
```

[example2TheoremA]

```
|- (M,Oi,Os) sat Name Alice says prop go =>  
(M,Oi,Os) sat Name Alice speaks_for Name Bob =>  
(M,Oi,Os) sat Name Bob controls prop go =>  
(M,Oi,Os) sat prop go
```

[example2TheoremB]

$\vdash (M, Oi, Os) \text{ sat Name Alice says prop go} \Rightarrow$
 $(M, Oi, Os) \text{ sat Name Alice speaks_for Name Bob} \Rightarrow$
 $(M, Oi, Os) \text{ sat Name Bob controls prop go} \Rightarrow$
 $(M, Oi, Os) \text{ sat prop go}$

[example3Theorem]

$\vdash (M, Oi, Os) \text{ sat prop go impf prop launch} \Rightarrow$
 $(M, Oi, Os) \text{ sat prop go} \Rightarrow$
 $(M, Oi, Os) \text{ sat Name Carol says prop launch}$

[example3TheoremA]

$\vdash (M, Oi, Os) \text{ sat prop go impf prop launch} \Rightarrow$
 $(M, Oi, Os) \text{ sat prop go} \Rightarrow$
 $(M, Oi, Os) \text{ sat Name Carol says prop launch}$

[Mono_Reps_Theorem]

$\vdash (M, Oi, Os) \text{ sat } Q \text{ controls } f \Rightarrow$
 $(M, Oi, Os) \text{ sat reps } P \ Q \ f \Rightarrow$
 $(M, Oi, Os) \text{ sat } P' \text{ quoting } Q' \text{ says } f \Rightarrow$
 $(M, Oi, Os) \text{ sat } P' \text{ speaks_for } P \Rightarrow$
 $(M, Oi, Os) \text{ sat } Q' \text{ speaks_for } Q \Rightarrow$
 $(M, Oi, Os) \text{ sat } f$

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