```
decls_mng_functionality_sigma  THM

⊢  ∀ds1,ds2:Collection(dec()), rho:Decl, r:(Σ[[ds1]] rho).
|  ds1 = ds2 ⇒ r ∈ (Σ[[ds2]] rho)
| by Unfold ‘sigma‘ 0 THEN UnivCD THENA Auto
|
1. ds1 : Collection(dec())
2. ds2 : Collection(dec())
3. rho : Decl
4. r : l:Label×decl_type([[ds1]] rho;l)
5. ds1 = ds2
⊢  r ∈ l:Label×decl_type([[ds2]] rho;l)  by D (-2) THEN Auto
|
.....subterm .....
1. ds1 : Collection(dec())
2. ds2 : Collection(dec())
3. rho : Decl
4. l : Label
5. r1 : decl_type([[ds1]] rho;l)
6. ds1 = ds2
⊢  r1 ∈ decl_type([[ds2]] rho;l)
| by All (Unfold ‘decl_type‘) THEN All Reduce
|
1. ds1 : Collection(dec())
2. ds2 : Collection(dec())
3. rho : Decl
4. l : Label
5. r1 : [[ds1]] rho(l)
6. ds1 = ds2
⊢  r1 ∈ [[ds2]] rho(l)
| by Using [‘ds1’,ds1] (BackThruLemma ‘decls_mng_member‘)
THEN Auto
|
1. ds1 : Collection(dec())
2. ds2 : Collection(dec())
3. rho : Decl
4. l : Label
5. [[ds1]] rho(l)
6. ds1 = ds2
7. d : dec()
8. d ∈ ds2
9. d.lbl = l
⊢  d ∈ ds1
  by AllHyps (Unfold ‘col_equal‘) THEN
BackThruSomeHyp THEN
Auto
END
```