Configuration mapping & scenario design

A detailed design study: trace many-to-many relationships, compare alternative configurations and check the consequences in a shared matrix.

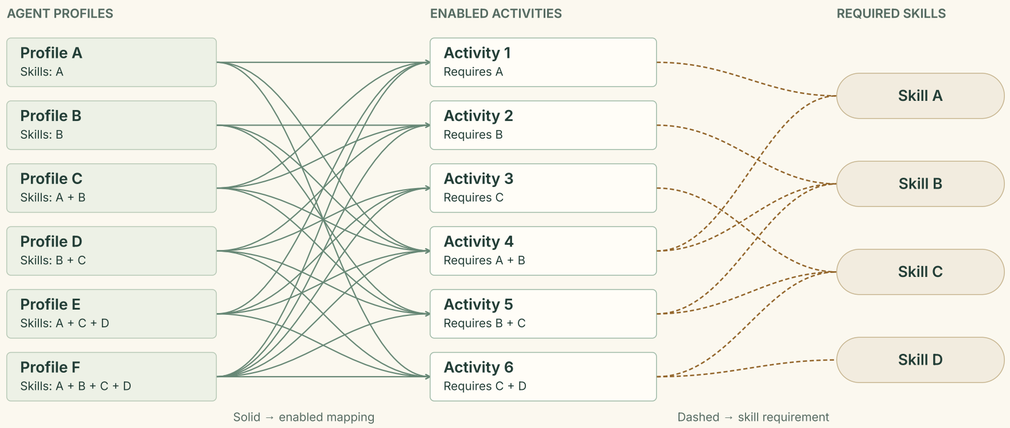
Conceptual example · invented labels and relationships

One-page print edition · A2 landscape

01 / CONFIGURATION MAP

Trace the relationships across the system

6 profiles · 6 activities · 4 skills · 24 enabled mappings



Read from left to right. Profiles carry skills and enabled activity mappings. Activities declare their requirements. Eligibility requires both an enabled mapping and every required skill.

02 / CROSS-CHECK

Compare all twelve scenarios

Each row corresponds to the numbered diagram below.

Every scenario checked against all six activities

Scenario / profile	1	2	3	4	5	6	Eligible
S01 · Profile A Baseline	✓	–	–	!	–	!	1 / 6
S02 · Profile A Add Skill B	✓	–	–	✓	–	!	2 / 6
S03 · Profile B Baseline	–	✓	–	!	!	–	1 / 6
S04 · Profile B Add Skill C	–	✓	–	!	✓	–	2 / 6
S05 · Profile C Baseline	✓	✓	–	✓	!	–	3 / 6
S06 · Profile C Enable 6	✓	✓	–	✓	!	!	3 / 6
S07 · Profile D Baseline	–	✓	✓	–	✓	!	3 / 6
S08 · Profile D Disable 5	–	✓	✓	–	–	!	2 / 6
S09 · Profile E Baseline	✓	–	✓	!	–	✓	3 / 6
S10 · Profile E Add Skill B	✓	–	✓	✓	–	✓	4 / 6
S11 · Profile F Baseline	✓	✓	✓	✓	✓	✓	6 / 6
S12 · Profile F Disable 2 + 6	✓	–	✓	✓	✓	–	4 / 6

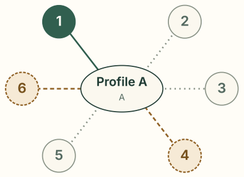
✓ Eligible ! Enabled; skills missing – Not enabled

Change one condition, then trace its consequences

Each baseline is followed by a variation. Node positions stay fixed for comparison.

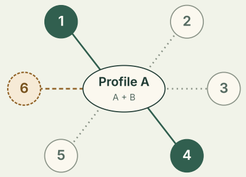
Eligible connection · Enabled; skills missing · Not enabled · Numbered nodes = activities · letters in centre = held skills

S01 Profile A · Baseline



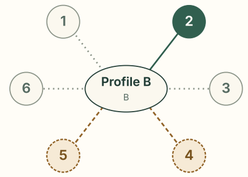
1 of 6 eligible. One eligible activity; two skill gaps.

S02 Profile A · Add Skill B



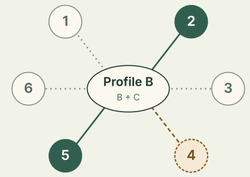
2 of 6 eligible. Activity 4 becomes eligible; 6 still needs C + D.

S03 Profile B · Baseline



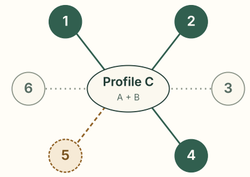
1 of 6 eligible. Enablement exposes two unmet requirements.

S04 Profile B · Add Skill C



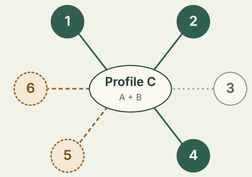
2 of 6 eligible. Activity 5 becomes eligible; 4 still needs A.

S05 Profile C · Baseline



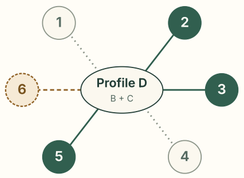
3 of 6 eligible. Three eligible activities; 5 still needs C.

S06 Profile C · Enable 6



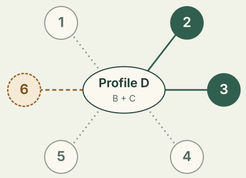
3 of 6 eligible. An extra mapping does not supply missing skills.

S07 Profile D · Baseline



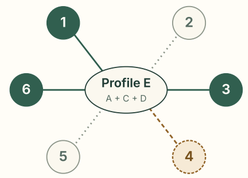
3 of 6 eligible. Three eligible activities; 6 still needs D.

S08 Profile D · Disable 5



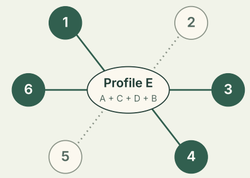
2 of 6 eligible. The skills remain, but the mapping is removed.

S09 Profile E · Baseline



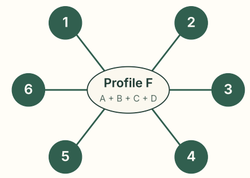
3 of 6 eligible. Activity 4 needs B; Activity 5 is not enabled.

S10 Profile E · Add Skill B



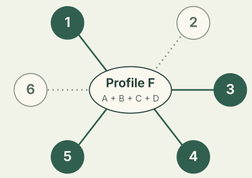
4 of 6 eligible. Activity 4 becomes eligible; 5 remains disabled.

S11 Profile F · Baseline



6 of 6 eligible. All six mappings meet their skill requirements.

S12 Profile F · Disable 2 + 6



4 of 6 eligible. Four remain eligible with all four skills retained.

Illustrative reconstruction of the documentation approach. All configurations and scenario outcomes are newly invented. This illustrative rule checks enabled mappings and skill coverage only. It does not model availability, capacity, routing priorities, transition timings or software-specific behaviour.

Thomas Eapen
nowlabs.net/tangerine-woa

New illustrative material explaining the approach. Values, configurations and results shown here are not historical workplace records.