

# Cloudpermit permitting service with integrated automatic data content and code compliance checking

Training material

Cloudpermit

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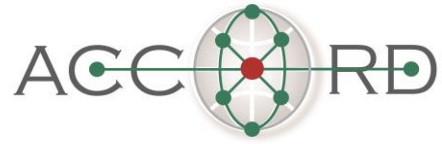
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Innovate  
UK

UK Participants in Horizon Europe Project ACCORD are supported by UKRI grant numbers 10040207 (Cardiff University), 10038999 (Birmingham City University and 10049977 (Building Smart International)



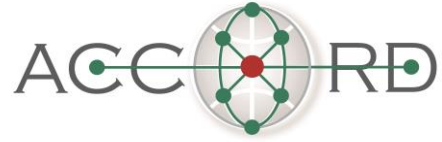
# Short description

- Cloudpermit is a cloud-based online permitting service that provides a digital experience to applicants and authorities in about 2 000 local authority organizations across Finland, Canada, and the US
- Cloudpermit has been added with capabilities to accept and process IFC models, including integrated automatic data and code compliance checking
- This presentation describes a typical Cloudpermit user experience in a building permit application and explains how some of the ACCORD components are used in the process



# Where it can be applied?

- Cloudpermit is used as a user interface and process management in any permit application process
- In the use cases, Cloudpermit hides the complexity of model checking from the final users. Through Cloudpermit, the users can for example
  - Provide the IFC models to applications in an intuitive and easy UI
  - Easily see results from the integrated data and code compliance checking, executed by third party checking tools such as Solibri Model Checker or ClearlyBIM by Future Insight
  - Read the building data to permit applications directly from the IFC models

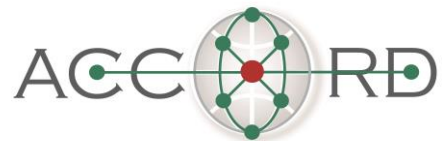


# Who can apply?

- Cloudpermit is used by the final users of the concept, e.g.
  - applicants,
  - architects,
  - designers,
  - other BIM professionals,
  - building permitting and other authorities

# Automatic compliance checking in permitting service

User experience demo



# Demo video

Lupapiste

www-ga.lupapiste.fi/app/en/authority#/structure/LP-091-2024-90287/893342f0-863d-4a08-a9d9-f329bf450169

Dashboard Billing Documents Information management Discussion Observations Instruction Instructions Virva Viranomainen

Basic Wall:US3:1330949  
Basic Wall:US2:1331029  
Basic Wall:US2:1331109  
Basic Wall:VS5.200:1332766  
Basic Wall:VS5.200:1332791  
Basic Wall:VS5.200:1332831  
Basic Wall:VS4:1334043  
Basic Wall:VS4:1334083  
Basic Wall:VS4:1334117

Validation Compliance

Home / Government Decree on Accessibility of building

Government Decree on Accessibility of building 12 2 0

Scope of application PASSED

Passageway leading to a building PASSED

Entrance to a building FAILED

Doors FAILED

Passageway inside a building PASSED

Other spaces in a building PASSED

Connection between different levels in a residential building PASSED

Connection between different levels in a non-residential building PASSED

Toilet and washing facility in a residential building PASSED

Toilet facility in a non-residential building PASSED

Other sanitary facility in a non-residential building PASSED

Assembly facilities PASSED

Accommodation facilities PASSED

Entry into force PASSED

Doors FAILED

Components passed / checked  
2400 / 2421

Kuvaus  
The level difference around SDoor:1519 and the landing is 100 mm. The maximum level difference is 0 mm. Slab elevations: Laatta.4.2: 25,56 m Laatta.4.4: 25,46 m

Component name	GUID
Floor:VP1:1625061	
Glass Sliding Door ACTIVE ALL012u/v:1625530	
Floor:PAL:1625419	

Kuvaus  
The level difference around SDoor:1163 and the landing is 100 mm. The maximum level difference is 0 mm. Slab elevations: Laatta.2.3: 19,26 m Laatta.2.1: 19,36 m

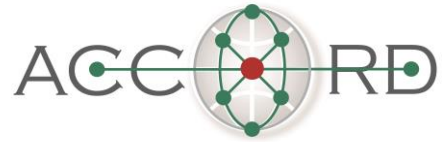
Component name	GUID
Floor:PAL:1425277	
Glass Sliding Door ACTIVE ALL012u/v:1498978	
Floor:VP1:1402705	

Kuvaus  
The level difference around SDoor:2498 and the landing is 100 mm. The maximum level difference is 0 mm. Slab elevations: Laatta.2.4: 19,26 m Laatta.2.5: 19,36 m

Component name	GUID
Glass Sliding Door ACTIVE ALL012u/v:1498958	
Floor:PAL:1425789	
Floor:VP2:1406378	

Kuvaus  
The level difference around SDoor:1674 and the landing is 100 mm. The maximum level difference is 0 mm. Slab elevations: Laatta.3.2: 22,46 m Laatta.3.4: 22,36 m

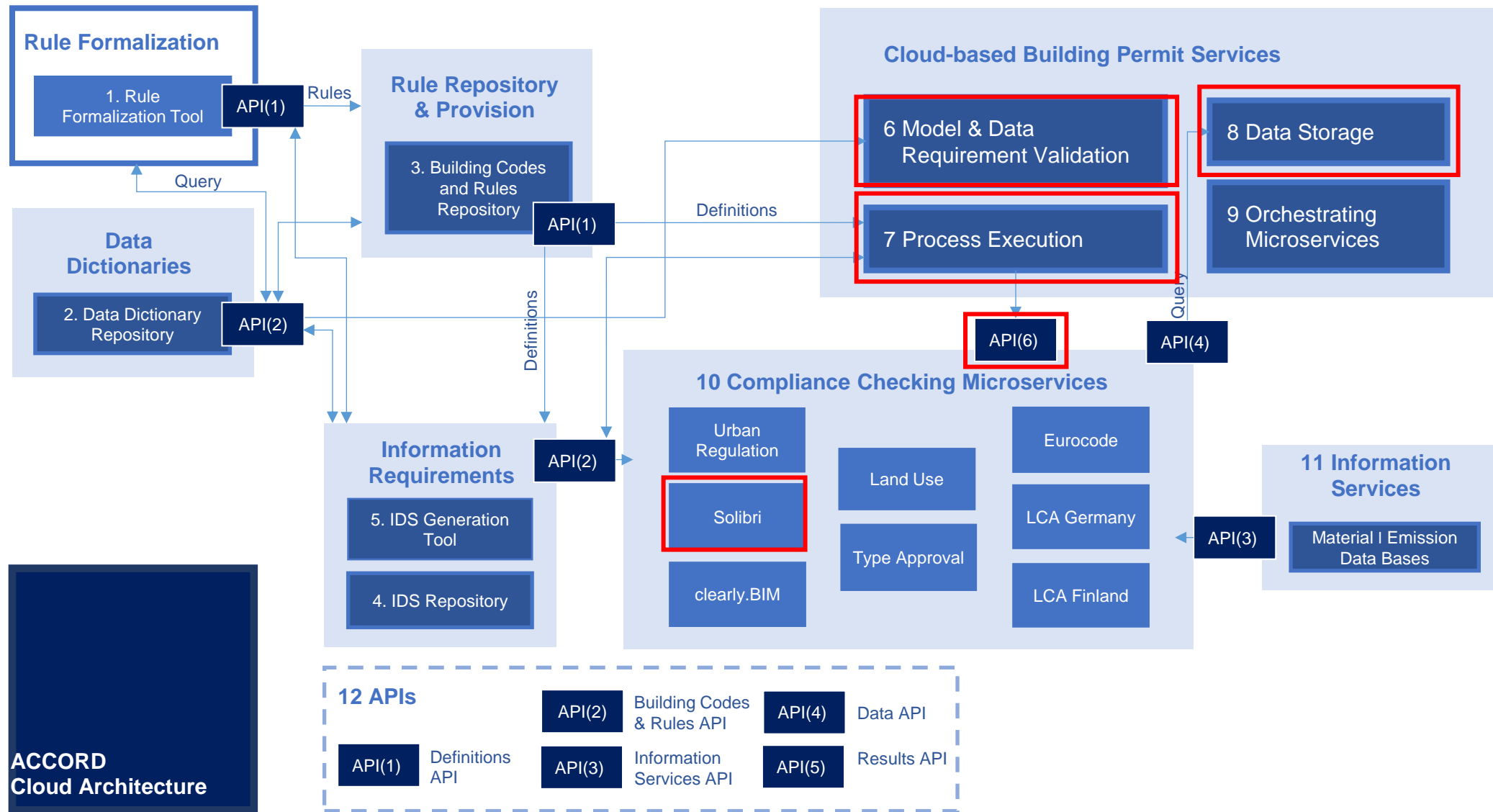




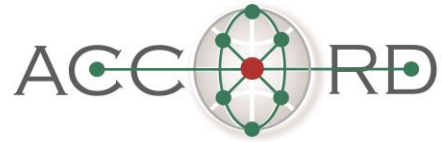
# Automatic compliance checking in permitting service

Application of ACCORD Architecture









# Thank you!

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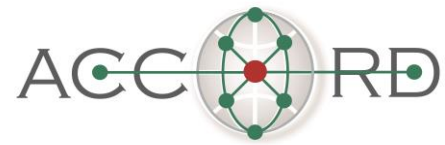
Access our website



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# Partners



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