

# Prosjektvurdering - Karaktersammendrag

Prosjektnummer: 248113

Prosjekttittel: Security in IoT for Smart Grids

	Vurderingskriterium	Karakter	Gjennomsnitt fra eksperter / panel
1	Vitenskapelig kvalitet	6	6.0
2	Prosjektleder og prosjektgruppen	5	5.0
3	Gjennomføringsplan og ressursbehov	B	4.0
4	Formidling og kommunikasjon	A	7.0
5	Samlet vurdering fra fageksperten/panelet	5	5.0
6			
7			
8			
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10			
11			
12			
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14			
15			
	Hovedkarakter*	5	

Karakterskala: 7, 6, 5, 4, 3, 2, 1 (7 er best)

A, B, C (A er best)

\*) Hovedkarakter er et uttrykk for hvor godt prosjektet oppfyller intensjoner og formål for søknadstypen.

Karakterene er en del av underlaget ved det besluttende organs behandling av søknaden.

# Assessment of grant application submitted to the Research Council of Norway

## Grant application

Project number	248113
Project title	Security in IoT for Smart Grids
Project manager	Noll, Josef
Project Owner	University of Oslo
Programme/Activity	IKT og digital innovasjon
Case officer	Jan Rasmus Sulebak

## Confirmation

By completing and submitting this form, I / we confirm the following (applies for the individual referee or the referee panel):

- I am /We are qualified to assess this application. See Regulations on Impartiality and Confidence in the Research Council of Norway.	Yes
- I/We have read and understood both the criteria I/we have been asked to use for assessing the application and the description of the scale of marks. The scale of marks is to be applied as an absolute scale, i.e. marks are to be determined for each grant application independently and not relative to other applications that the panel/referee is assessing.	Yes
- I/We understand and accept the guidelines for assessing applications for the Research Council of Norway. See Guidelines for referees/panels who assess applications for the Research Council of Norway.	Yes
- I am/We are qualified to conduct this assessment.	Yes

## Summary of marks

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Criterion	Mark
Scientific merit	6
The project manager and project group	5
Implementation plan and resource parameters	B
Dissemination and communication of results	A
Overall assessment of the referee/panel	5

## Criteria

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### Scientific merit

How would you rank the project's scientific merit?

This criterion gives an indication of the essential, fundamental aspects of the research project. The scientific merit of a project will be assessed in relation to the following points:

- \* Originality in the form of scientific innovation and/or the development of new knowledge.
- \* Whether the research questions, hypotheses and objectives have been clearly and adequately specified.
- \* The strength of the theoretical approach, operationalisation and use of scientific methods.
- \* Documented knowledge about the research front.
- \* The degree to which the scientific basis of the project is realistic.
- \* The scientific scope in terms of a multi- and interdisciplinary approach, when relevant.

The project considers system description, security modelling, evaluation and industrial applications in the context of secure applications for smart grids scenarios using IoT technologies. The research proposed will produce new techniques, mechanisms and methodologies, but the proposal lacks details regarding how those aforementioned results will be integrated. Overall, the focus seems to be on more applied research that is relevant to industry. The project will complement an existing collaboration with a cluster of projects. The approach of "semantic provability" is promising. The a priori knowledge of the project about the state-of-the-art is well documented and the scientific basis is realistic.

Selected mark : 6 - Excellent

The project's objectives, research questions and hypotheses are very clearly presented and are based on an excellently formulated and highly original project concept. The project is in the forefront of its field and will contribute to scientific innovation as well as generate important new knowledge. The project is of excellent quality, with no significant weak points. Publications in leading scientific journals in the field are highly likely.

## The project manager and project group

How would you rank the qualifications of the project manager and project group?

This criterion gives an indication of the qualifications of the project manager and project group. The project manager and project group will be assessed in relation to the following points:

- \* Project management
- \* Expertise and experience within the field of research
- \* Publication record
- \* Experience with national and international collaboration on projects
- \* Experience with supervision of students and younger researchers
- \* The degree to which the project manager and project group are part of a research environment that has the competence and resources needed to ensure the success of the project

The consortium is composed of a good combination of research and industrial partners. Actually, they conform a very representative group for the particular scope of the proposal, but with limited presence in the top scientific security venues. The project manager is active, productive and has experience from several national and EU projects with strong industrial background, but his track record in security, privacy and dependability is rather weak. Overall his citation profile could have been stronger. International collaboration within the scope of the project is foreseen due to previous and current involvement of project partners in research relationships, at different levels (projects, publications, ...) with European universities and companies.

Selected mark : 5 - Very good

The project manager and/or research/project group is/are very well qualified, and has/have contacts within renowned national and international research environments that will be able to play an important role in ensuring the success of the project.

## Implementation plan and resource parameters

How well-suited are the implementation plan and resource parameters in relation to the project?

This criterion gives an indication of whether the plan for project implementation is satisfactory, and whether the planned use of resources in the project is well-suited for the tasks in the project, based on assessment of the following elements:

- \* Plans for project implementation, including breakdown into work packages/sub-projects, milestones and deliverables.
- \* Need for personnel resources, as listed in terms of work time distributed by work packages, sub-projects or milestones.
- \* Need for other resources (such as equipment, data collection, field work), distributed by work packages/sub-projects or milestones.

The assessment is not to be linked to any scientific risk.

The project has very detailed workpackages, tasks and milestones, showing an overall clear structure. The roles and responsibilities of the partners are well-defined. Also, resources requested are reasonable considering the size of the consortium and duration of the project. However, the implementation plan lacks to clearly show how industrial partners will make use of project results. The quantity and diversity of approaches produces some concern about the focus and integration. It is not clear that there is a validation planned with real users, even if usability seems to be one of the goals. Overall, it could have been made more clear what the research outcomes will be beyond research papers and project proposals.

Selected mark : B - Good

The project plan and planned use of resources are satisfactory overall, despite a few weak points.

## Dissemination and communication of results

How would you rank the quality of the dissemination and communication plans?

This criterion gives an indication of the quality of the dissemination and communication plans for the project.

Dissemination and communication of results will be assessed in relation to the following points:

- \* Plans for scholarly publication, dissemination and other communication activities.
- \* Plans for popular science dissemination and communication activities vis-à-vis the general public as well as users of the project results, including planned use of channels and measures.
- \* Plans for ensuring that important users (in industry, community life and public administration) are incorporated into/take part in dissemination activities for the project.

When assessing dissemination and communication plans, importance should be attached to the level of detail provided and how realistic the plans are.

The dissemination plan is very solid, broad and detailed as it targets, in a realistic way, not only typical publication activities but also organization of specific Workshops, approach to European Technology Platforms, and approach to standardization bodies, which is essential in this area. It should also involve the top security conferences that guarantee the highest visibility in the international community. The proposal has measurable outcomes in terms of dissemination, what is valuable.

Selected mark : A - Very good

The project's dissemination and communication plans provide a thorough level of detail and are of high relevance.

## Overall assessment of the referee/panel

How does the project rank in terms of the referee's/panel's overall assessment?

This criterion indicates the overall view of the referee/panel, based on the specific criteria which they have been asked to assess.

This project addresses a timely and challenging topic. The team has a very good background in the area and builds on existing collaborations, bringing together academia and industry. The scientific expertise is very good but not excellent. The project lacks details regarding how research results will be integrated, and how industrial partners will make use of project results. The dissemination plan is very solid as it targets typical publication activities but also organization of specific Workshops, approach to standardization bodies and approach to European Technology Platforms. The overall plan could be improved by being more selective and focusing on quality instead on quantity and wide coverage. Several challenges remain without a convincing answer.

Selected mark : 5 - Very good

A project of national and international interest. Publications in recognised journals may be anticipated. The researchers are very well recognised in their field.

## Special points to consider

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Comments to special points to consider