

PAS 11281 Project Overview

A PAS is a sponsored fast-track standard that is developed through a consensus-building process facilitated by BSI Standards Limited. A PAS should not be regarded as a BS, EN or ISO standard.

Identifier	PAS 11281
Draft title	Connected automotive ecosystems – Relation between security and safety – Code of practice
PAS Sponsor	Centre for the Protection of National Infrastructure (CPNI)
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Key dates	Expected date of public consultation: June 2018 (~4 weeks)
	Expected date of publication: November 2018

Background

In vehicle manufacture, testing and servicing a degree of security and a degree of safety scenarios are carried out, but these are seldom linked together to determine their interaction and interoperability.

With the advent of more sensor-laden vehicles and computerised controls, a void is appearing between the security of the electronics and the control systems versus the installed safety components that are required. A typical example of this would be the anti-collision option on many models of car. This unit detects the rate of change of anything in front of the vehicle and any out of range sensor signal (laser, radar or video) will either notify the driver to “brake” or in higher-end cars, brake for them. This type of feature has both security and safety in the same system and the security aspect, i.e. the integrity of the signal from the vehicle sensor could be compromised, having a direct outcome on safety. It is critical that the two elements safety and security are designed and serviced in unison through the vehicle lifecycle and through the vehicle component supply chain.

Aim

The objective of this project is to develop a code of practice to ensure vehicle safety is not compromised by system security measures.

Draft Scope

This PAS gives recommendations for managing security risks that might lead to a compromise of safety in a connected automotive ecosystem.

The PAS covers both the entire connected automotive ecosystem and its constituent systems. These include vehicles, road-side infrastructure, communication channels to and from vehicles and infrastructure, servicing and repair facilities, digital services and other services that support the proper operation of road transport.

The PAS applies to risks that can affect a single system, a few systems, or are on a small scale. The PAS also gives recommendations for managing systemic risks – wider risks which might appear small, but which become more significant when interdependencies are considered and where the failure of a single or a few entities could result in more widespread failure.

The PAS is intended to be used by manufacturers, operators and maintainers of systems used in a connected automotive ecosystem. This includes manufacturers of vehicle subsystems, vehicle manufacturers, maintenance organizations, infrastructure operators, owners of large vehicle fleets, and digital service providers.

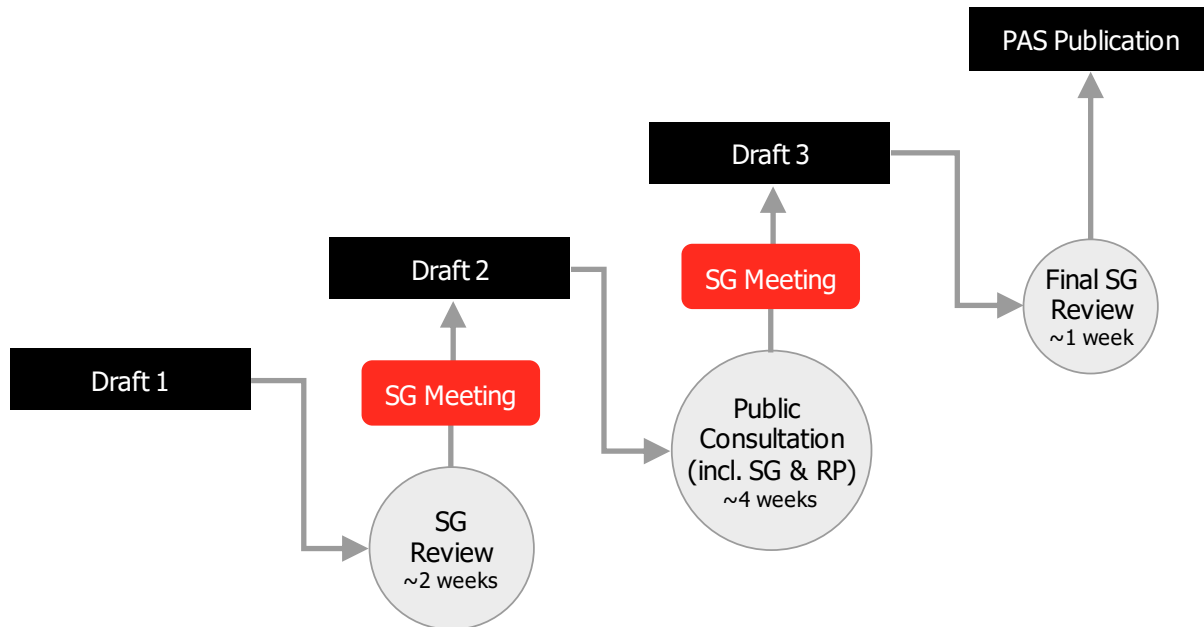
Responsibilities of the Review Panel (RP)

The RP is a wide formation of organizations and individuals representing those stakeholder groups that may be affected by the implementation of a PAS, even if only peripherally affected. Consultation with the RP is vital in terms of building consensus in the development of a PAS.

RP members will be invited to submit comments electronically during a public consultation via the BSI Draft Review System <http://drafts.bsigroup.com/> in June 2018. **There are no RP meetings.**

Due to the time restraints of the project, comments received after the deadline or in any format other than online via the BSI Draft Review System cannot be considered.

PAS Process



SG	steering group (8 to 15 stakeholders)
RP	review panel (including targeted stakeholders)
SG Review	draft is made available to SG only, for technical review
Public consultation	draft is made publicly available for technical review through BSI's online draft review system < http://drafts.bsigroup.com/ >
SG Ed. Review	draft is made available to SG only, for final (editorial) review
SG Meeting	meeting where comments are resolved by the steering group members