



Horizon 2020 ETC 636126

D 12.6 Standards & Requirements for Germany

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1. Introduction

This document is deliverable 12.6 Standards & Requirements for Germany and is part of work package 12 *'German Pilot'*.

It gives an overview of the standardization process within eTicket Germany, summarizes the results coming out of the ETC project that are relevant for the technical Core Application standard and explains the ongoing work and next steps regarding the preparation and submission of formal change request.



2. Change Request Procedure in the German Core Application

This chapter gives a brief description of the steps involved in the change request (CR) process implemented in eTicket Germany and their relevance for the ETC project results. This CR process is the only path for introducing changes to the Core Application standard documents underlying the eTicket Germany ecosystem.

To initiate the change request process a request for change must be submitted to the “Working Group Standardization” (WGS) by a member of eTicket Germany. In the case of the ETC project results, the submissions will come from VDV ETC, AVV and/or ASEAG. The relevant results coming from the ETC project will be divided into several submissions each focussing on specific parts of the eTicket ecosystem or phases of migration.

The WGS consisted of (elected) experts from member companies and VDV ETS makes recommendations to the general management of VDV ETS regarding the approval of the change requests. This includes analysing the impact of the CRs on productive systems, providing consultation and guidance to members, making recommendations on timeframes for implementation of changes and assigning the CRs to releases.

The recommendations of the WGS are reviewed by the general management of VDV ETS and, in particular, the impact on existing systems is considered. The general management then authorizes those CRs that are to be presented to the Members General Assembly for voting.

After passing the Members General Assembly, CRs are decided over in the VDV ETS Shareholder General Meeting to the extent that the CR has impact on VDV ETS itself.

A CR is then enacted by the final signing of the CR by the VDV ETS General Management.



3. Relevant Project Results

Aside from project management activities the role of VDV ETS in the research project was to provide guidance regarding the Core Application Standard and review the concepts regarding their perspective compatibility with the Core Application Standard; in particular, accounting for the long-term view. The goal was to facilitate the perspective incorporation of project concepts into the standard by building on commonalities (including the future view) and avoiding incompatibilities with earlier versions.

The focus was therefore on aspects of the proposed ABT concept that would directly affect components of the eTicket Germany Scheme or their interfaces. These aspects can be grouped nicely along the role-based architecture (as defined in ISO/IEC 24014) employed in eTicket Germany as follows.

1. User medium
2. Service provider terminals, used to inspect and validate tickets during transport
3. Customer retailer terminals and systems
4. Product owner system

The following table gives a mapping between these generic components and the primarily relevant specifications produced in the research project. This also serves as a first indication of the division of the relevant project results into different change request submissions mentioned in the previous chapter.

Relevant specification from the ETC project	Core Application component	comments
Generic Secure Token (GST) Application Specification (Version 2.1)	User Medium	The first stage that considered in the standardization will support the GST application as a separate, optional application on Core Application media. The GST application will be supplied with an appropriately defined certificate issued by the VDV-PKI. The second stage will consider the integration of relevant GST functions in the eTicket Germany user medium application.
Personalization of the GST Application		
Secure Token Acceptance Sensor (STAS) – Behaviour and Interface Specification	Service provider terminal	In the core application standard the service provider terminals perform inspection and validation of users and their media during travel. The process of accepting GST applications and accessing the Service API are
Sensor API		



Relevant specification from the ETC project	Core Application component	comments
		therefore relevant for the service provider terminal application.
Platform API	Customer retailer system	The customer retailer maintains account information for users and issues tokens to users, therefore the platform APIs for account and token management are relevant for the customer retailer system specification.
Service API ETC Service APIs – Interface Specification, version 2.1)	Customer retailer system	In connection with the customer accounts the customer retailer system also maintains information regarding the entitlements held by users and possibly payment methods, therefore the Service APIs are relevant for the customer retailer system specification.



4. Status of continuing work and timeline

Following the finalisation of the research project and the first results from the pilots, a wider discussion among VDV ETS experts and members of the WGS has been initiated and is ongoing.

The main goals of this discussion are detailed

- analysis of impacts to parts of the Core Application standard and
- suggestions for implementation of the project results in the Core Application standard documents.

These represent the essential inputs to the formal change request submissions.

Formal submissions will be disseminated to all member organisations of eTicket Germany and an open discussion will be moderated by the WGS. This will be organised through the change request sharepoint provided by VDV ETS, to which all members have access, as well as through seminars.

Ample time should be planned for this process in the run-up to the General Members Assembly.

The next General Members Assembly, where submissions containing results from the ETC project could be put up for decision, is in May 2019.

In view of the volume and complexity of the project result, the WGS will consider how to divide the results into manageable and logical packages as well as plan the preparatory communication with the community of members and schedule the submissions to the General Members Assemblies to smoothen the process.