

BILAG 1- UNDERBILAG 1A PROJEKTBESKRIVELSE



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1. BAGRUND OG OVERORDNET PROJEKTBESKRIVELSE

Signalprogrammet i Banedanmark arbejder med at tilvejebringe en udskiftning af de eksisterende signalsystemer på S-banen og på regional-banerne.

Som en del af Signalprogrammets tilpasning af administrative IT systemer til det nye Signalsystem skal det eksisterende P-base system funktionelt migreres over i en ny platform.

Migreringen skal foregå ved omkodning af den eksisterende funktionalitet. P-base er systemet til operationalisering af køreplaner. Det vil sige, at P-base anvendes i Drift til at udskrive arbejdsplaner til at afvikle trafikken efter. Togenes sporbenyttelser og bemærkninger til støtte for Trafiklederen redigeres i P-base. Endvidere anvendes systemet til udsendelse af telegrammer om særtog, aflysninger, farligt gods med mere.

Signalprogrammet ønsker derfor at købe en løsning som indeholder en defineret delmængde af den eksisterende funktionalitet i P-base systemet. Disse områder er

- Bruger og rollestyring
- Kvitteringsoversigt
- UT melding (UT = Usædvanlig transport)
- UT cirkulærer
- RID telegram
- Manglende slutsignal

Projektet, som skal sikre en 1:1 migrering af det eksisterende system skal, baseret på det eksisterende system, analysere, designe, udvikle, teste og idriftsætte et nyt system. Projektet eksekveres agilt med løbende analyse, design og accept af delelementerne i P-base systemet. Ligeledes udgives delleverancer undervejs med henblik på løbende brugertest af de udviklede delkomponenter.

2. INTRODUCTION (IN ENGLISH)

Purpose of this document is to introduce and overall specify the scope of work BDK intend to ask the supplier to deliver to the Signaling Programme as part of the PBASE replacement task.

The current PBASE setup is shown in figure 1 below:

- PBASE contains at an overall level the list of features listed in figure 1.
- The PBASE system is loaded with the yearly timetable from TPS before the start of a new year.
- PBASE provides an interface to ATNS. ATNS holds 4-5 days of timetables. Once
 every night the fifths day of timetables are transferred to ATNS. Timetable changes are continuously transferred to ATNS as well.
- PBASE provides Train Announcements (toganmeldelser) to DLK (DSB) through an FTP site (XML files) and as pdf documents distributed by email.
- PBASE receives train consist information from MADS2(DSB)
- Finally UT circulars are accessible for PBASE to support the management of UT documents

The replacement of PBASE with:

- TMS Light
- extended scope of TPS
- the introduction of a component X

are shown in figure 2 and in more detail in figure 3 below. The original scope of the component (until now called TA Publisher) was Train Announcement publishing based on data



received from TPS. It is now the intention to increase the scope of this component (now called X) as listed in figure 2:

- The train announcement publishing feature needs to be supplemented with:
 - Distribution list generation the list of stations relevant for the train announcement shall be converted to responsibility areas
 - Acknowledgement flow management, which consist of the following subfeatures, cf. figure 6 for PBASE windows to be inspired from:
 - Access for responsibility areas to view the TA document
 - Access for responsibility areas to acknowledge the reading of the TA document
 - Access for the issuer of the TA document to verify the acknowledgement status
 - Setup of users, roles and responsibility areas to support the previous two bullets, cf. figure 4 and 5 for PBASE windows to "copy".
- Management of three additional types of documents similar to but significantly simpler than the Train Announcement document:
 - Missing Tail Light (MTL) documents
 - o RID documents
 - UT documents

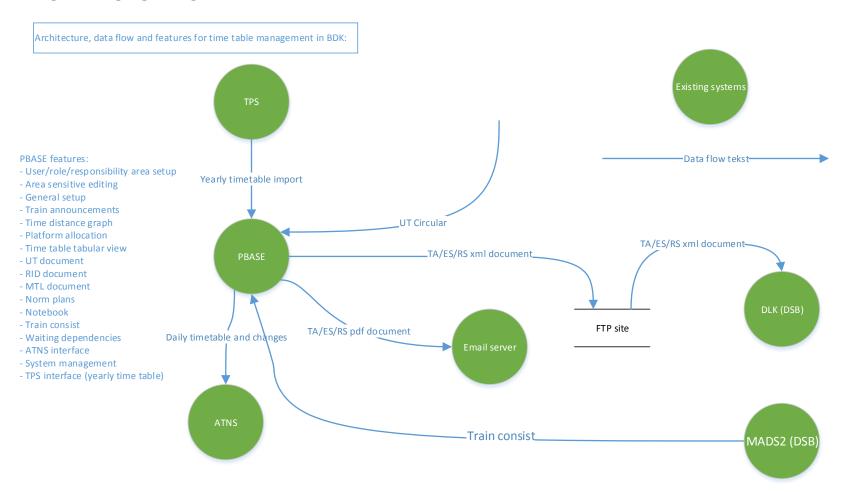
The scope of work for these three types of documents is the same as for train announcement documents (extended scope as described above) with the following exceptions:

- The data input for the documents is in scope as well this is for train announcement provided by TPS
- No XML and pdf-files shall be published externally. The pdf-files are published internally through the acknowledgement flow management mentioned above

The data input shall be provided according to the corresponding user interfaces in PBASE, cf. figure 7, 8, 10 and 12. The pdf document output shall be as shown by the examples from PBASE, cf. figure 9, 11 and 13.

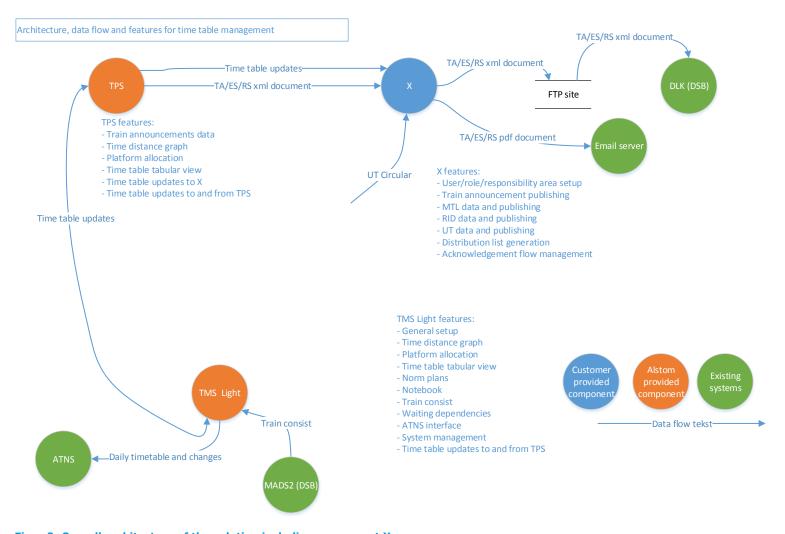


3. ARCHITECTURE OVERVIEW



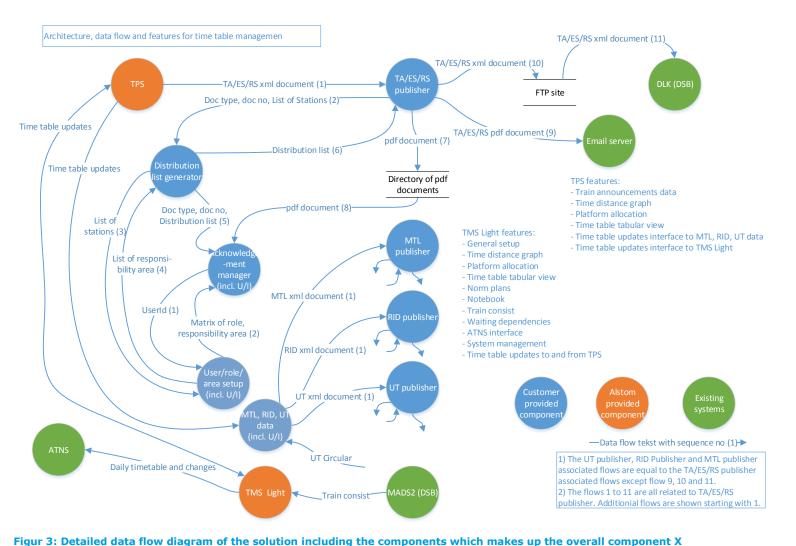
Figur 1: Current PBASE setup





Figur 2: Overall architecture of the solution including component X



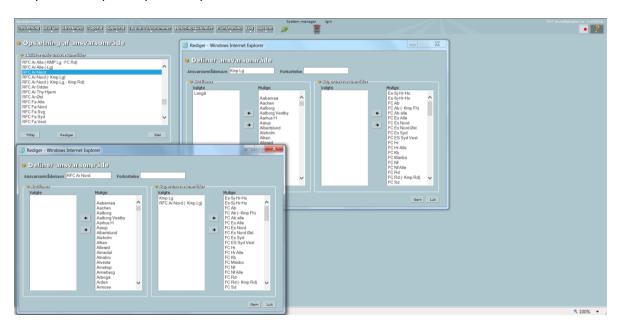




4. PBASE FUNCTIONAL OVERVIEW EXTRACT

4.1 User, role and responsibility area concept

Responsibility area setup is the key to defining what a PBASE user can see and do in PBASE. A responsibility area is the stations and lines for which a user the responsibility in a given role. The window and two popup below show examples of the hierarchy: responsibility area – super responsibility area – stations.



Figur 4: PBASE windows supporting responsibility area setup

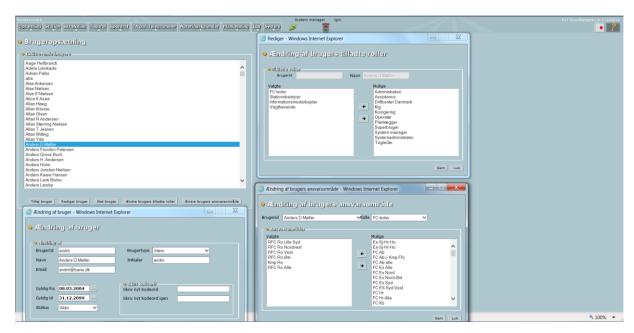
The bottom level of the hierarchy is a kmp, which consists of typically one station, and a FC which consists of a number of stations.

The next level is "superansvarsområder", which consists of exactly one kmp and one or more FCs/RFCs. A station must **never** be part of more than one "superansvarsområde". Please note that e.g. RFC Ar Nord (-Kmp Lg) is equal to RFC Ar Nord except Langå (Lg). PBASE does not monitor that each and every station at all times is manned with at least one user. This is up to the users to assure this "coverage". Lack of coverage will e.g. be discovered when an acknowledgement is expected for the unmonitored station.

The list of roles available in PBASE is fixed, cf. the user setup screen dump below.

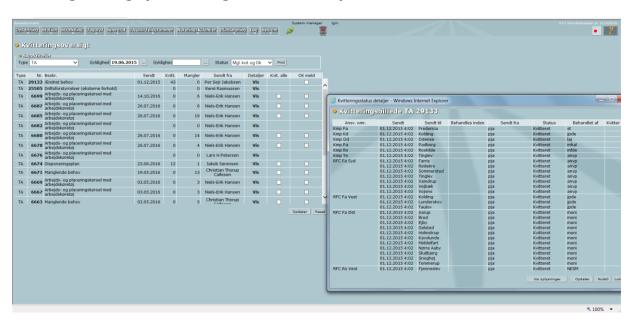
A user can be setup to be able to take on one of more roles. For each role a responsibility area can be setup.





Figur 5: PBASE windows supporting user and role setup

4.2 Kvitteringsoversigt (acknowledgement overview)

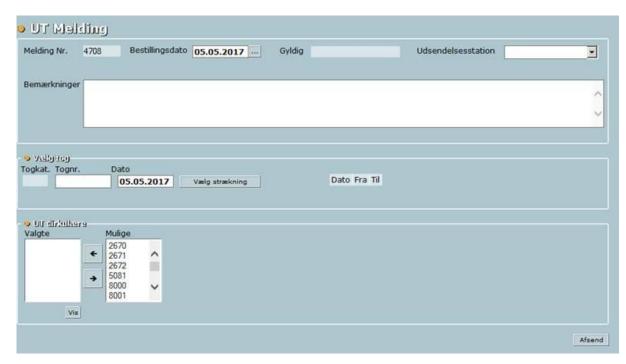


Figur 6: PBASE windows supporting acknowledgement overview

4.3 UT melding (UT document)

UT meldinger are created by the "Stationsbestyrer" for the origin station. A UT melding contains a reference to a UT Circular which can be viewed. The train must not depart origin station before all people/functions in the distribution list have read and acknowledged the UT document.



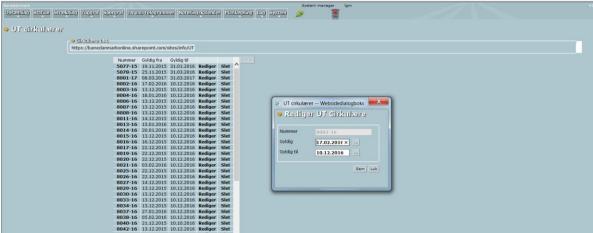


Figur 7: PBASE window supporting data for UT document

4.4 UT cirkulærer (UT circular)

The UT circular documents are accessible in PBASE from a file share. This is process to be changed to Sharepoint:

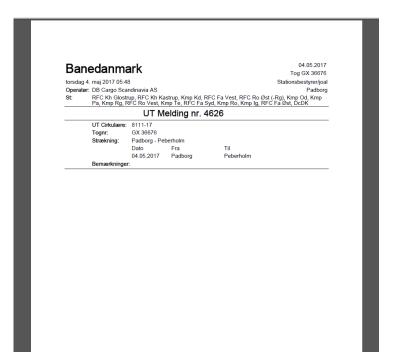
https://banedanmarkonline.sharepoint.com/teams/KeyAccountManagement/UT/Forms/UT %20gruppe.aspx



Figur 8: PBASE window supporting viewing of UT Circulars

The following is an example of a UT melding document.

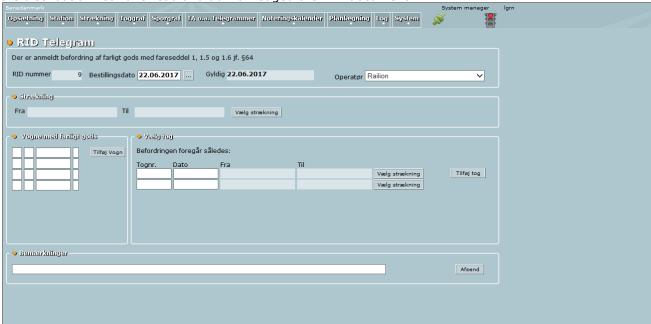




Figur 9: PBASE UT document example

4.5 RID telegram (RID document)

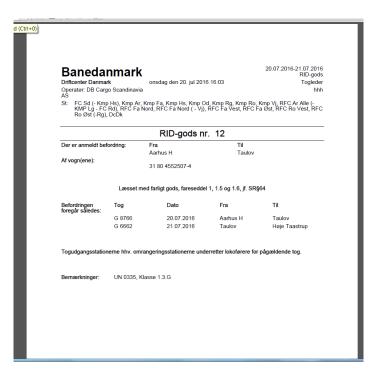
The RID document can contain many units with dangerous goods. They can be transported by many trains during more than one day. It is created by the "Stationsbestyrer" for the origin station. The train must not depart origin station before all people/functions in the distribution list have read and acknowledged the RID document.



Figur 10: PBASE window supporting data for RID document

The following is an example of a RID document.

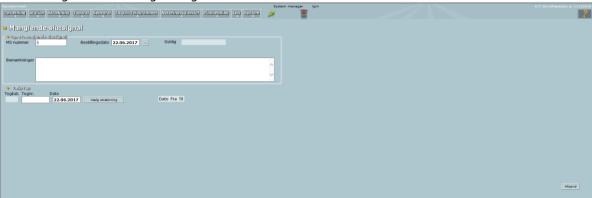




Figur 11: PBASE RID document example

4.6 Manglende slutsignal (missing tail light document)

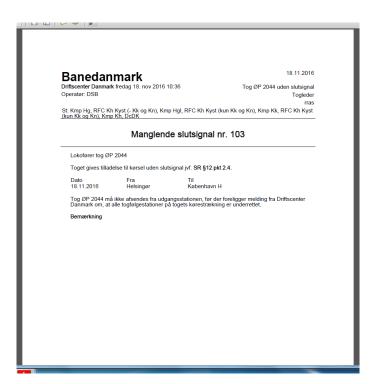
The missing tail light document is used to grant dispensation for a train to run without tail lights. It is created by the "Stationsbestyrer" for the origin station. The train must not depart origin station before all people/functions in the distribution list have read and acknowledged the missing tail light document.



Figur 12: PBASE window for missing tail light data

The following is an example of a missing tail light document.





Figur 13: PBASE missing tail light document example