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# Introduction

## Purpose and Scope

This document describes the functional and technical changes included in the late CRs of version 21.0 of the Fokus system. It provides a detailed functional description of the changes and their impact.

### Major Milestones of the Version

|  |  |  |
| --- | --- | --- |
| Milestone | Date | Comments |
| UAT – Drop 1 | 16/09/2013 |  |
| UAT – Drop 2 | 30/09/2013 |  |
| Telia Production | 27/10/2013 |  |
| Netcom Production | 10/11/2013 |  |

## Related Documentation

HLD documents – refer to the list in section ‎2.1s, “CR Summary”.

# Functional Change Summary

## CR Summary

The following table lists all the Change Requests (CRs) handled in this version by the main application.

| Main Application | CR ID | Impact on Other Applications | Short Description of Change | DC #  (of the IA) | Initiated By | Comments |
| --- | --- | --- | --- | --- | --- | --- |
| MAF | 1464 |  | Mobile Office CDR format implementation | 1831867 | NTC | Already delivered to UAT. Will be re-delivered in V21 –Drop 1 |
| MAF | 1481 |  | Video Conference CDR implementation | 1940678 | NTC | Already delivered to UAT. Will be re-delivered in V21 –Drop 1 |
| AR | 1406 |  | Payment confirmation-SMS | 1913238 | NTC | Drop 1 |
| Price Plan | 1458 | CSM | Promotion in Campaign Change | 1896120 | TMD | Drop 1 |
| CSM | 1460 | RFT | Suspension Improvements | 1929826 | TMD | Drop 1 |
| Letters | 1462 |  | Show reminder letter for Chess customer | 1940740 | NTC | Drop 1 |
| CSM | 1465 | SC | Provisioning of new parameters | 1898802 | NTC/TMD | Drop 1 |
| ADD | 1479 |  | Enhanced FYI for Bill Type and enclosures | 1940703 | TMD | Drop 1 |
| AR | 1480 |  | Collection on invoices | 1945014 | TMD | Drop 1 |
| Letters | 1483 |  | Enhanced multiple letter Output | 1941531 | TMD | Drop 1 |
| CSM | 1489 | Billing, ADD | Flexible leasing - Req 2 | 1930771 | NTC | Drop 2 |
| CSM | 1467 |  | BAN Level Services | 1936914 | TMD | Drop 2 |

## Defect Summary

### NetCom

N/A

### Netcom Total Defects

N/A

### Telia

NA

### Telia Total Defects

NA

### Netcom/Telia Rejected defects

NA

### Total Rejected Defects

NA

# Changes Made On Site

## Changes Summary

This section describes all of the changes that were developed on site as part of the Time and Material (T&M) CRs, and not as part of the release’s scope. These changes were merged into the source area of this version; thus, they were incorporated in this release.

### NetCom

| Main Application | CR ID | Impact on Other Applications | Short Description of Change | Solution Document | Comments |
| --- | --- | --- | --- | --- | --- |
| SC | T&M 1786  (CR 1474) |  | Traffic shaping package id |  |  |
| SC | T&M 1797 (CR 1475) |  | Fixed IP on 2G/3G and 4G |  |  |
| CSM | T&M 1787 (CR 1477) | AR | TSCID Update Job |  |  |
| SC | T&M 1785 (CR 1478) |  | Spotify softbundle (TSN only) |  |  |
| MAF | T&M 1804 |  | New TB prefix rules update on TM 1767 |  |  |
| SC | T&M 1810 |  | Add 4G to Trilling subscribers |  |  |
| SC | T&M 1811 (CR 1486) |  | WpKI |  |  |
| AR | T&M 1830 |  | Change the logic to populate priceplan in journaling |  |  |
| MAF | T&M 1831A |  | Stop sending TELE2 calls IMSI 2400768 to Outcollect |  |  |

### Telia

| Main Application | CR ID | Impact on Other Applications | Short Description of Change | Solution Document | Comments |
| --- | --- | --- | --- | --- | --- |
| Billing | T&M 1665 |  | Clean Cut of Advance RC |  |  |
| ADD | T&M 1788 (CR 1476) |  | Change PBS to Betalingsservice on level 1 in all bill formats |  |  |
| MAF | T&M 1807 |  | 6 Digit Roaming Operator Code in Telia |  |  |
| ADD | T&M 1809 | CSM | PDF Bill Image for Telia |  |  |
| MAF | T&M 1829 |  | Change Incollect\_rerate\_ind mapping for TDC roaming calls |  |  |
| MAF | T&M 1826 (CR 1463) |  | Remove duration usage from CDR |  |  |
| CSM | T&M 1825 (CR 1468) |  | Changes to Charge reason dropdown |  |  |
| ADD | T&M 1850 |  | Change PBS Information on Payment Sleeve |  | Drop 2 |
| MPS | T&M 1853 |  | GPRS Kb rounding to 4 decimals |  | Drop 2 |

## Defects Summary

### NetCom

| Project | Defect ID | Severity | Detected on Site | Detected in Version | Summary | Est. Delivery Date |
| --- | --- | --- | --- | --- | --- | --- |
| Csm | 7243 | 4-Low | Netcom-site | Ver 17.0 | Not able to copy/paste 12 digits MSISDNs | 30/09/2013 |
| Maf | 7248 | 4-Low | Netcom-site | Ver 18.0 | Netcom bill -"Ringt nr" column in the call specification is cutting digits for some particular numbers | 30/09/2013 |
| Billing | 7306 | 2-High | Netcom-site | Ver 18.0 | Payment arrangement on bill when assigened to collection agency | 16/09/2013 |
| Maf | 7362 | 3-Medium | Netcom-site | Ver 19.0 | critical error on NSMSC\_sccp\_dest\_addr\_gt\_addr-field | 30/09/2013 |
| Maf | 7443 | 3-Medium | Client\_Netcom | Ver 19.0 | cell\_id/lac to wh\_postpaid | 30/09/2013 |
| Billing | 7470 | 3-Medium | Netcom-site | Ver 19.0 | Chess carry over bills have the period wrong for usages. | 16/09/2013 |
| Billing | 7471 | 2-High | Netcom-site | Ver 19.0 | `Chess bills missing some amounts randomly | 16/09/2013 |
| Bill Formater | 7475 | 3-Medium | Netcom-site | Ver 19.0 | Secret number on ban also set this on other numbers on invoice | 30/09/2013 |
| Billing | 7478 | 3-Medium | Netcom-site | Ver 19.0 | Memory problems in Chess CSV problem | 16/09/2013 |
| Billing | 7479 | 3-Medium | Netcom-site | Ver 18.0 | BLTBMAINT problelms for Netcom quarterly cycle and Chess cycles. | 16/09/2013 |
| MPS | 7487 | 3-Medium | Netcom-site | Ver 20.0 | mismatch AU US for combination Free minutes and SOC\_APN\_FREE\_RELATION | 30/09/2013 |
| Billing | 7493 | 3-Medium | Netcom-site | Ver 19.0 | Process the one time, RC and usage charges that were not defined in INV\_SUM\_FMT and INV\_USG\_FMT tables with zero amounts. | 16/09/2013 |
| Maf | 7494 | 3-Medium | Netcom-site | Ver 20.0 | regular MO MMS interpreted as MMS to email | 30/09/2013 |
| AR | 7495 | 3-Medium | Netcom-site | Ver 20.0 | Chess Account number in DD Coming wrong | 16/09/2013 |
| Csm | 7497 | 2-High | Netcom-site | Ver 20.0 | Wrong expiration date after move from ban to ban (soc with duration) | 30/09/2013 |
| Bill Formater | 7500 | 3-Medium | Client\_Netcom | Ver 20.0 | EN files are created for the English format customers which is wrong. | 30/09/2013 |
| AR | 7501 | 2-High | Netcom-site | Ver 20.0 | CR1401 - Expected unbilled RC transactions not being journalized | 16/09/2013 |
| AR | 7502 | 2-High | Netcom-site | Ver 20.0 | Deferals and expected unbilled RC transactions (accruals) have same voucher number | 16/09/2013 |
| Csm | 7503 | 3-Medium | Netcom-site | Ver 20.0 | Penalty not created for customers ported to chess during commitment period | 30/09/2013 |
| AR | 7507 | 2-High | Netcom-site | Ver 20.0 | Single manual Note for 2 Invoices | 16/09/2013 |
| Billing | 7510 | 3-Medium | Netcom-site | Ver 20.0 | Missing RC after RC feature swap | 30/09/2013 |
| Bill Formater | 7511 | 4-Low | Netcom-site | Ver 20.0 | The giro-part is popping up as an extra page on the invoice (page 4 in inv0082010373 in NTC ENV10). | 30/09/2013 |
| Maf | 7515 | 2-High | Netcom-site | Ver 20.0 | MMS delivery report, subscriber\_no | 30/09/2013 |
| Dealer | 7517 | 3-Medium | Netcom-site | Ver 20.0 | CDs are missing in DMS after move ctn | 30/09/2013 |
| MPS | 7522 | 3-Medium | Netcom-site | Ver 20.0 | Rerate going into infinite loop | 30/09/2013 |
| NP | 7518 | 4-Low | Netcom-site | Ver 20.0 | Defect in CR 1466 | 02/10/2013 |
| Billing | 7525 | 3-Medium | Netcom-site | Ver 20.0 | The english format have extra lines added in the summation summary for service specification | 02/10/2013 |

### Netcom Total Defects

| **Severity** | **Number of Defects** |
| --- | --- |
| Critical | 0 |
| High | 7 |
| Medium | 16 |
| Low | 4 |
| **Total** | **27** |

### Telia

| Project | Defect ID | Severity | Detected on Site | Detected in | Summary | Est. Delivery Date |
| --- | --- | --- | --- | --- | --- | --- |
| NP | 6177 | 4-Low | Telia\_Site | Ver 16.0 | Internal port in back is not handled by Internal porting | 30/09/2013 |
| Csm | 7266 | 4-Low | Telia\_Site | Ver 18.0 | CIT4007 - Negativ Quantity i unbilled calls in CSM | 30/09/2013 |
| Csm | 7279 | 4-Low | Telia\_Site | Ver 18.0 | Mass SOC not allowing delete SOC, when SOC has a switch feature | 30/09/2013 |
| Billing | 7307 | 2-High | Telia\_Site | Ver 18.0 | CIT4094 - billing create wrong charges when swap of RC-feature and add promotion happen in the same month. | 30/09/2013 |
| Bill Formater | 7338 | 2-High | Telia\_Site | Ver 19.0 | CIT4119 - Missing page number when many vatfree charges | 30/09/2013 |
| Bill Formater | 7365 | 3-Medium | Telia\_Site | Ver 19.0 | CIT4172 - refund for negative soc not recognized correctly and causing problem in the bill | 30/09/2013 |
| Csm | 7381 | 3-Medium | Telia\_Site | Ver 19.0 | MSISDN released in CSM but NP flow isn't cancelled in NP Portability Control | 30/09/2013 |
| AR | 7397 | 3-Medium | Telia\_Site | Ver 19.0 | BAN not assigned to Agency but Invoices assigned to Agency | 16/09/2013 |
| Bill Formater | 7399 | 4-Low | Telia\_Site | Ver 19.0 | UAT - Bill image does not display full FYI section | 30/09/2013 |
| Bill Formater | 7410 | 4-Low | Telia\_Site | Ver 19.0 | CIT4272 - wrong alignment of colomn on SP-bill level 1 | 30/09/2013 |
| Csm | 7436 | 3-Medium | Telia\_Site | Ver 19.0 | CIT4345 - Change CTN cause negative soc to reset expiration date | 30/09/2013 |
| Billing | 7453 | 4-Low | Telia\_Site | Ver 19.0 | CIT4355 - Unbilled show wrong RC for new customer created first day in cycle (CR-1220) | 16/09/2013 |
| Csm | 7461 | 2-High | Client\_Telia | Ver 19.0 | CR1353 - CR1461: Waive fee ind = 'Y' doesn't waive charge, instead it charges and credits. | 16/09/2013 |
| Csm | 7476 | 3-Medium | Telia\_Site | Ver 20.0 | When search for PBS no., the same BAN appears several times | 16/09/2013 |
| Csm | 7480 | 3-Medium | Telia\_Site | Ver 20.0 | CIT4452 - Memo must include charge code / adjustment reason (CR1422) | 30/09/2013 |
| Bill Formater | 7481 | 2-High | Telia\_Site | Ver 20.0 | Central reprint error | 16/09/2013 |
| Csm | 7482 | 4-Low | Telia\_Site | Ver 20.0 | CSM must block for change of account-type between brands | 30/09/2013 |
| Bill Formater | 7484 | 4-Low | Telia\_Site | Ver 20.0 | Uneven line spacing on manual notes | 30/09/2013 |
| Bill Formater | 7485 | 4-Low | Telia\_Site | Ver 20.0 | CIT4456 - Column antal not aligned on level 3 | 30/09/2013 |
| Bill Formater | 7486 | 4-Low | Telia\_Site | Ver 20.0 | CIT4457 - Column abonnement not aligned on level 2B | 30/09/2013 |
| Bill Formater | 7488 | 4-Low | Telia\_Site | Ver 20.0 | PBS-file has duplicate section header if the customer only has vat free ban level charges | 30/09/2013 |
| Bill Formater | 7490 | 4-Low | Telia\_Site | Ver 19.0 | CIT4458 - Amount missing in level 3 of bill image but printed in actual bill | 30/09/2013 |
| Csm | 7492 | 2-High | Telia\_Site | Ver 20.0 | Fraud/stolen suspension is disregarded when reopening suspended BAN | 30/09/2013 |
| Csm | 7496 | 3-Medium | Telia\_Site | Ver 19.0 | Unbilled / Billed - description column is too wide | 30/09/2013 |
| AR | 7499 | 4-Low | Telia\_Site | Ver 20.0 | Incorrect "not processed BANs" report from ARFTELECRDCRE job | 16/09/2013 |
| AR | 7508 | 4-Low | Telia\_Site | Ver 20.0 | F-tele write garbage characters in not-processed output file | 16/09/2013 |
| Bill Formater | 7509 | 4-Low | Telia\_Site | Ver 20.0 | CIT4453 - level 4 print wrong carrier in case of call to roamer | 30/09/2013 |

### Telia Total Defects

| **Severity** | **Number of Defects** |
| --- | --- |
| Critical | 0 |
| High | 5 |
| Medium | 7 |
| Low | 15 |
| **Total** | **27** |

### Total Rejected Defects

| Project | Defect ID | Severity | Detected on Site | Detected in | Summary |
| --- | --- | --- | --- | --- | --- |
| Dealer | 2877 | 4-Low | Netcom-site | Ver 8.1 | CPP with no reason codes |
| Dealer | 3105 | 4-Low | Netcom-site | Ver 8.8 | Different date's on AIM of IMEI and CPP activities with future activity date |
| Csm | 3194 | 4-Low | Netcom-site | Ver 9.0 | loan/leasing error message |
| Switch | 6088 | 3-Medium | Netcom-site | Ver 15.2 | S-BGPR (bar GPRS when roaming) enables GPRS use |
| Csm | 6953 | 4-Low | Netcom-site | Ver 18.0 | UAT\_R4\_Netcom Chess UAT - CSM issue when resuming canceled subscriber |
| NetCom | 7195 | 2-High | Netcom-site | Ver 18.0 | Chess-PT - international traffic are listed as domestic traffic in sparkle |
| Csm | 7264 | 3-Medium | Telia\_Site | Ver 18.0 | CIT3967 - unintended backdated cancellation restriction |
| MPS | 7291 | 3-Medium | Telia\_Site | Ver 18.0 | FM - usage is not tagged with the service feature sequence number |
| Csm | 7328 | 2-High | Client\_Netcom | Ver 18.0 | Penalty not charged for subscribers ported from Netcom to Chess |
| MPS | 7347 | 3-Medium | Telia\_Site | Ver 19.0 | CIT3872 - Soc GPRS4U with steps seems to be with strange behaviour |
| Maf | 7362 | 3-Medium | Netcom-site | Ver 19.0 | critical error on NSMSC\_sccp\_dest\_addr\_gt\_addr-field |
| Csm | 7452 | 3-Medium | Telia\_Site | Ver 19.0 | At times opening bill detail for ban without any bills errors out in CSM OL |
| AR | 7474 | 3-Medium | Telia\_Site | Ver 20.0 | When I create an adjustment, CR1422 should give me a new message with Final amount, but this is not the case |
| Billing | 7477 | 2-High | Client\_Telia | Ver 20.0 | CR1445 - Billing produced bills for cases where it shouldnt have PBS/less than 2 subscribers for new customer type Company Employee |
| CSM | 7375 | 3-Medium | Netcom-site | Ver 19.0 | User name in voicemail should not set special charachters |
| Billing | 7489 | 3-Medium | Telia\_Site | Ver 19.0 | CIT4364 - duplicate invoice fee generated for change of address last day in cycle |

# Application Functional Changes

The following sections present all functional changes in the version, in accordance with the customer’s request.

Description: Note Some requirements impact more than one application.

The following sections with associated information are available for each item:

* Requirement Overview
* Market-Specific Notes – Specifies whether the change affects both NetCom and Telia markets, or only one of them.
* Functional Specifications – Outlines the functionality modifications performed to fulfil the requirement.
* Impact on Other Applications – Specifies the impact on other applications, both inside and outside Fokus (such as Ninja). This section is optional.
* Assumptions and Constraints
* Implementation, BPT CR, and Training Notes – Lists required reference data changes (also known as BPT CRs).
* File and Record Changes – Describes changes to the input/output file structure (this section is optional).
* Database Structural Changes

## CR 1406 – Payment Confirmation SMS

### Requirement Overview

* FR1: The system should send a “payment received” SMS to a customer if he makes a payment and comes out of collection and late notice was sent to him.
* FR2: It should be possible to change the SMS text.
* FR3: The ‘payment received’ SMS should not be sent if the BAN was suspended and is reopened due to the payment. This is because the current process already sends an SMS when the BAN is reopened.

### Market-Specific Notes

The item for customization is part of the Fokus customized module, and is therefore available to Netcom only.

### Existing Functionality

Currently, there is no functionality to send an SMS informing the customer that a payment has been received and that he is out of collection.

### Proposed Solution Functional Specifications

#### AR

The AR application will be enhanced as follows:

* The collection on-going process will be modified to send an SMS to a customer when he becomes non-delinquent due to a payment.
* The new SMS will be sent only if a payment reminder has been sent to the customer; that is, if the Late Notice step was part of the collection process.
* The new SMS will be sent to the BAN only if the BAN was in open status (BILLING\_ACCOUNT.BAN\_STATUS = ‘O’) before it was made non-delinquent.
* The new SMS will only be sent to NetCom Private Customers.
* A new SMS code - ‘DSMS’ - will be added to the SMS\_TEXT table for the new SMS.

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

Amdocs will create a new entry in the SMS\_TEXT table for SMS code ‘DSMS’ and text “Vi har i dag mottatt din betaling av forfalte faktura. Mvh NetCom” this is relevant only for Netcom. BPT 2931 was created for this.

### Telia/Netcom Responsibility

N/A

### File and Record Changes

N/A

### Database Structural Changes

N/A

### Test Instruction

Testers should perform the following procedure:

* Make a payment on a BAN that is in collection and has received a Late Notice but is not suspended. The payment amount should be such that the BAN will be taken out of collection. An SMS should be created in the SMS\_SEND table when the payment is posted.
* Make a payment on a BAN that is in collection and has received a Late Notice but is not suspended. The payment amount should be such that the BAN remains in collection. An SMS should not be created.
* Make a payment on a BAN that is suspended in collection. The payment should bring the BAN out of collection and restore it from suspension. The new ‘payment received’ SMS should not be created.
* Make a payment on a BAN cancelled in collection. The payment should bring the BAN out of collection. The new ‘payment received’ SMS should not be created.
* Run a payments file that contains delinquent BANs. The new ‘payment received’ SMS should be created for the BANs that became non-delinquent and have received a late notice and are in Open status.
* There should not be any impact on performance of the Collection process due to the new changes introduced by implementation of this CR.

## CR 1464 – Mobile Office BW format Implementation

### Customer Requirements

Sometime during 2013 the existing Trådløs Bedrift (TB) IN system will be replaced with a new system called BroadWorks from a company called BroadSoft. The project is called Mobile Office. Today the charging of TB customers is done using CDRs from the core network (Huawei MSS). The new BroadWorks system will generate CDRs that should be used for end customer charging. At the same time CDRs will still be generated by the Huawei MSS. These Huawei CDRs should not be sent to usage.

During the migration period there will be customers on both the old TB IN and the new BroadWorks platform. Thus some customers will still be charged using the traditional Huawei CDRs, while some customers should be charged based on CDRs from the BroadWorks platform

### Requirement Overview

Describe here the requirements as received from the customer

* [FR01] **File Structure** 
  1. The CDR format is CSV. Included fields and their length can be found in [BroadWorks CDR format - list of fields v.1.0.xlsx](#_BW_00_Layout).
  2. Each CDR file will start with a Header record (type = H) and end with a Trailer record (type = T). These records should be skipped by MAF.
  3. Currently the “Normal” CDR type has 84 fields. The “Normal” CDRs will start with an “N”. If a CDR contains more than 84 fields, MAF should still be able to read/decode the CDR file. Any additional field after the 84 defined fields will be ignored.
* [FR02] **Huawei vs. BroadWorks CDRs**
* Mobile Office subscribers will generate CDRs both on the BroadWorks platform and in the Huawei MSS. Mobile Office subscribers should be charged using the BroadWorks CDRs. Thus the corresponding CDRs from Huawei MSS should not be sent to MAFUSAGE. Subscribers still active on the old Trådløs Bedrift IN system should still be charged using the Huawei CDRs.
* The Service Key in the Huawei CDRs, together with the IMSI, should be used to distinguish those CDRs that should not be sent to MAFUSAGE. IF Huawei.serviceKey IN {To Be Decided} AND Huawei.servedIMSI IS a NetCom IMSI (range 24202%) AND (HUAWEI.moCallRecord or HUAWEI.forwardCallRecord) then the CDRs should NOT be sent to MAFUSAGE.
* Other mapping for Huawei CDRs, such as the mapping to WH\_CDR, should remain as is.
* [FR03] **BroadWorks recordTypes**
* The following record types are currently defined:
* 01 = Originating Call Record (OCR)
* 02 = Terminating Call Record (TCR)
* 03 = Forwarding Call Record (FCR)
* 11 = Originating Call Attempt Record (OCAR)
* 12 = Terminating Call Attempt Record (TCAR)
* 13 = Forwarding Call Attempt Record (FCAR)
* [FR04] **Forward Type**
* If BW.source = BW AND BW.trafficDirection = O then MAF.FORWARD\_TYPE = O
* If BW.source = BW AND BW.trafficDirection = T then MAF.FORWARD\_TYPE = I
* If BW.source = BW AND BW.trafficDirection = F then MAF.FORWARD\_TYPE = F
* [FR05] **Service**
* IF BW.serviceType = 0 AND BW.serviceCode = 11

THEN MAF SERVICE = VOICE

* In the future we expect other serviceCodes to appear in the CDR files. These will then be the same as that of HUAWEI.teleServiceCode.

We suggest that you implement the same WORK.service mapping for BW as is already implemented for HUAWEI.teleServiceCode. E.g. if BW.serviceCode = 22 THEN WORK.service = SMS

[FR06] **Message Identifier**

* The unique message identifier for each BW record is called “BW.recordId”.
* In Call Forwarding scenarios, the thirdParty or the actual callingNumber (the number that calls the party who has done call forwarding) is mapped to the MESSAGE\_IDENTIFIER field after the specific message identifier value separated with a semicolon “;”.

In the case of a BroadWorks call forwarding record (BW.recordType = 03 or 13), then the value found in the BW.callingNumber should be mapped to the message identifier field.

Example: BW.source = BW AND BW.recordId = 7FFFFFFF AND BW.callingNumber = 46735000000 then we will get:

FOKUS.MESSAGE\_IDENTIFIER =7FFFFFF;46735000000

* [FR07] **Number Normalization**
* Numbers such as callingNumber, calledNumber, and so on are represented in international format (the “+” has been removed) with a country code, if not otherwise specified.

[FR08] **Mapping to MAFUSAGE**

* See attached Excel sheet [“Mapping from BW CDR to MAFUSAGE v1.0.xlsx”.](#_Mapping_Fields)
* [FR09] **Mapping to WH**
* BW.OCR, BW.TCR, BW.FCR, BW.OCAR, BW.TCAR and BW.FCAR should be mapped to WH\_CDR. Mapping rules for the specific BroadWorks CDR fields can be found in the attached Excel sheet “Mapping of BW CDR to WH\_CDR v1.0.xlsx”.
* Other rules, such as determination of WH\_CDR.THIRD\_PARTY\_OPERATOR, WH\_CDR.CALL\_CHARACTERISTICS (for BW.calledNumber and BW.callingNumber) and WH\_CDR.SERVICE should be similar to the Huawei implementation.
* [FR10] **Number Enquiry Calls**
* BW.OCR and BW.FCR (BW.recordType IN (01,03) CDRs related to calls to the number enquiry services, 18XX (BW.calledNumber such as 4718XX), should be dropped in MAF. Thus, such CDRs should NOT be sent to MAFUSAGE.
* [FR11] **NPDB Lookup**
* For BW.OCR and BW.FCR sent to MAFUSAGE, an NPDB lookup to determine operator ownership (CALL\_CHARACTERISTIC\_CD) must be performed on the BW.CalledNumber if it is a Norwegian mobile number.
* [FR12] **Outbound Roaming**
* If BW.roamingMscAddress exists and is NOT a Norwegian number (such as 4673600000), then the BroadWorks record should be dropped and NOT sent to MAFUSAGE.
* [FR13] **Product Type**
* Product Type must be determined based on the BW.userNumber in the CDRs.
* [FR14] **Call Assembly**
* No call assembly or merge of long duration calls is required. Calls sent to MAF will already be assembled.
* [FR15] **CUG/VPN**
* The handling of CUG/VPN should be similar to the implementation for the Huawei CDR format.
* [FR16] **Call Attempts**
* Call attempt records (no b-answer) will have BW.answerIndicator = No. recordTypes are 11, 12 and 13. Such records should NOT be sent to MAFUSAGE. Any other handling, such as mapping to WH\_CDR, should be similar to call attempt records from the Huawei MSS. WH\_CDR mapping for call attempts is defined in [“Mapping of BW CDR to WH\_CDR v1.0.xlsx”.](#_WH_Mapping)
* Original Requirement Doc and Associated Documentation









### Market-Specific Notes

This CR is part of Fokus customized module and is therefore available for Netcom only.

### Existing Functionality

This CR is about the new BW format and its implementation. Hence, there is no change in existing functionality.

### Proposed Solution Functional Specifications

#### MAF

* MAF Listener will be enhanced to handle the BW format.
* The BW format will be created in RBMS and will be of “Delimiter” type, where delimiter is ‘,’ (COMMA).
* For this new format, four new layouts and related fields will be created in RBMS, according to the fields defined in chapter **Error! Reference source not found.** “**Error! Reference source not found.**”.
* For processing of the new BW format by MAF, new entries will be created in the MAF Reference tables for the following new file types:
* BW
* BW\_DROP
* BW\_ERROR
* Header and Trailer records coming in BW format will be sent to Drop (BW\_DROP).
* To populate the WORK fields, new RBMS correction/match/edit/distancing/rate rules will be written.
* Since a-numbers and b-numbers do not contain porting information, nrdb\_ported look up will be applied.
* MAF code will enhanced to support the business logic for the following:

| Record Types | Name |
| --- | --- |
| 01 | Originating Call Record (OCR) |
| 02 | Terminating Call Record (TCR) |
| 03 | Forwarding Call Record (FCR) |
| 11 | Originating Call Attempt Record (OCAR) |
| 12 | Terminating Call Attempt Record (TCAR) |
| 13 | Forwarding Call Attempt Record (FCAR) |

* Only Post-paid OCR and FCR events will be distributed to MAFUSAGE.
* The population of call\_characteristic will be in accordance with how the equivalent service is implemented in Huawei format.
* To map output USAGE fields, new mapping rules will be written.
* To map output WH (UDWH) fields, new mapping rules will be written.
* If there is any error on an input record, that record will be distributed to a new file type, BW\_ERROR. To map output ERROR fields, new mapping rules will be written.
* The sum total size of all the fields in the input record is 3630 bytes, whereas the total size of the useful fields has a total of 561 bytes. Today, if the record goes into error, the error prefix appended with the original record is sent to the ERROR\_REPOSITORY. Due to the possible huge size of the input record, only the subset of the fields will be sent to subsequent processes such as ERROR Management. This will be achieved by creating alternate layout (E) inside the BW format.
* The Error Handling system will be enhanced to address the new error file, BW\_ERROR. In addition, a new file type will be defined in the MAF Reference tables.
* Header and Trailer will be sent to BW\_DROP. MAF RBMS rules will be defined to map the drop code for the Header and Trailer. A new file type, BW\_DROP, will be defined in the MAF Reference tables.

#### Impact on Huawei

* Rules will be written to not distribute to Usage, CDRs that satisfy the following condition:
* MOC and Call Forward and Huawei service Key IN (500} and IMSI IS in NetCom IMSI (range 24202%).
* These records will continue to be distributed to UDWH.

#### MPS

* As per resolution of OI#10 :

Currently in MPS Guiding, if an IMSI is not present in the MAFUSAGE record, the BAN is derived by accessing the subscriber table, however the IMSI is not fetched or passed to Rating. This functionality will not change, and Guiding will not access the PHYSICAL\_DEVICES table to fetch the IMSI and therefore will not pass the IMSI to Rating.

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

* BPT No: 2911 – Insert MAF\_OPERATION
* BPT No: 2910 – Insert MAF\_APPLICATION
* BPT No: 2909 – Insert ERROR\_CODES
* BPT No: 2908 – Insert DROP\_REASON
* BPT No: 2907 – Insert AC\_SOURCE
* BPT No: 2906 – Insert AC\_PGM\_FILES\_CONTROL

### Telia/Netcom Responsibility

* New “**bw\_dat**” and “**bw\_aud**” directories will to be created under “$TLG\_UP\_ROOT/physical/”

### File and Record Changes

New BW Format files will be received with the naming convention of “BW \_<date>\_BW<01/02>\_<ID>.DAT”.

### Database Structural Changes

N/A

### Test Instructions

Testers should perform the following:

* Test all the events that are supposed to be received in the BW format as per the IA.

## CR 1458 – Promotion in Campaign Change

### Requirement Overview

* FR1 - The system should be enhanced to associate a promotion along with price plan/SOC to campaigns. The current known characteristics of the promotion should be kept.
* FR2 - When we add Price Plan and SOC in campaign then special promotions and BOGO related to this price plan /SOC should be possible to be added under the campaign.
* FR3 - The system should be enhanced to remove a promotion from campaign as well.
* FR4 - If any price plan or SOC is removed from campaign then its related promotion should also get removed from Campaign.
* FR5 - The functionality of the campaign itself should not be changed.
* FR6 - When the new campaign, now with a possible promotion in the bundle of price plan and SOCs is activated and so forth it should behave as campaigns does today.
* FR7 - In Price Plan online, new menu item and a new button need to be added to add promotions under campaign.
* FR8 - In CSM online, when campaign having promotions along with price plan or SOC is selected to add then promotions should be auto deployed.

### Market-Specific Notes

This CR is part of Fokus core module and is therefore available for both Netcom and Telia.

### Existing Functionality

Currently, it is not possible to add promotions to campaigns.

### Proposed Solution Functional Specifications

#### Price Plan Application

Price Plan application will be enhanced as follows:

* The campaign definition window will be enhanced to support the addition of promotions to campaigns, similar to the addition of price plan and SOC for the campaign:
* A new menu item, *Promotion*, will be added with a new Promotion button on the left menu bar, below the SOC button and above the Discount button.
* If the user tries to add a promotion to a campaign before adding the price plan or SOCs, a message will be displayed to the user telling him/her to select the price plan or SOCs first. The message text can be similar to the following: “Please select a Price Plan/SOC before adding a promotion.”
* When the user clicks the Promotion menu or button, a promotion list window will be opened. It will contain a list of the special promotions (both price plans and SOCs), as well as BOGO SOCs related to the price plan and SOCs already added to the campaign.

The list will not include the reduced price plan or reduced SOC promotions and there is no need to add these to the campaign.

* The New window will show the Promotion/BOGO, its description, Type and the Base SOC.
* To add a promotion to the campaign, the user can either drag or double-click the promotion from the displayed promotions list.
* When the user clicks Save, an entry will be created in the new table COMMIT\_PROMO\_RELATION. The entry will include the Campaign Sequence Number, Base SOC, and Promotion SOC. The table will store the promotions connected to each campaign.
* The Campaign Option’s Components window will be enhanced to show the list of promotions attached to the campaign.
* A new node, *Promotion*,will be added under the *Campaign option* tree and placed after the SOCs node and before the Discount Group node.
* When the user expands the Promotion node, the system will display the features of that promotion.
* It will be possible to add promotions under an existing campaign.
* It will be possible to remove any promotion under a campaign. Following removal, the new table COMMIT\_PROMO\_RELATION will be updated.
* If a user removes any price plan or SOC from the campaign, a message will be displayed to the user notifying him/her that the promotions related to the removed price plan or SOC will be also removed. The user can click cancel to stop the activity or OK and then the promotion related to the removed price plan or SOC will also be removed from the campaign and the COMMIT\_PROMO\_RELATION table will be updated

#### CSM

CSM applications will be enhanced as follows:

* If a user activates a campaign that has a price plan or SOC in addition to the promotion, all promotions associated with the campaign will be auto-deployed.
* If the campaign is added in the future, the associated promotions will also be added from the same future date. The future promotions will appear in the same window as the effective one.
* If a user explicitly clicks the Insert Special promotion of the price plan or SOC, then all promotions related to the price plan or SOC should be displayed. This will enable the user to explicitly add a special promotion from the available list of promotions, as is done for the current functionality.
* If a user removes or changes a campaign in which the price plan or SOC is associated with the promotion, then CSM will automatically remove all associated promotions of all types from the subscriber.
* A penalty created when a campaign is cancelled will be calculated according to the campaign terms and the PP, SOC or promotion definition, as done now.
* Because a Reduced PP and Reduced SOC are automatically added when the base price plan or SOC is present under the campaign, only the Special Promotion PP, Special Promotion SOC, and BOGO will be added under the campaign after this CR.
* When the user modifies a campaign (by adding or removing a price plan or SOC or promotion), the existing subscribers who have an older version of the campaign will not be affected. The new modified campaign will be effective on new subscribers only.

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

N/A

### Telia/Netcom Responsibility

N/A

### File and Record Changes

N/A

### Database Structural Changes

#### COMMIT\_PROMO\_RELATION (New):

Add a new table: COMMIT\_PROMO\_RELATION .

| Field Name | Attribute/Domain | PK/NN/FK | Description |
| --- | --- | --- | --- |
| CAMPAIGN\_SEQ | NUMBER(8) | PK | A sequence number that represents one campaign’s commitment |
| PROMO\_SOC | CHAR(9) | PK | Promotion SOC assigned to the base SOC |
| Generic fields |  |  |  |
| BASE\_SOC | CHAR(9) | NN | Base SOC: part of the campaign |

### Test Instruction

#### Price Plan

* Open the new Promotions window that does not have any SOCs or price plans in the promotion. Error should be displayed.
* In an existing campaign, open the new Promotions window and perform the following steps:
* Add a Special Promotion SOC by double-clicking or dragging
* Add a Special Promotion price plan by double-clicking or dragging
* Add a BOGO SOC by double-clicking or dragging
* Refresh the window; the added entities should still be in the list
* For each aforementioned entity, change the promotion effective date to a date that is earlier than the promotion effective date of the entity. An error message should be displayed.
* Save changes.
* Reopen the promotion. The added objects should still be in the list.
* Verify that the expansion and collapse feature works for the new entities.
* Delete the aforementioned entities.
* Save changes.
* Perform the above steps for both new and existing campaigns

#### CSM

* Create a new CTN, and do the following:
* Select a campaign containing the following objects:
* Campaign assigned Special promo PP
* Campaign assigned BOGO SOC for a campaign PP
* Campaign assigned Special promo SOC
* Campaign assigned BOGO SOC for a campaign SOC
* Verify that the objects are displayed in the correct tabs and panes
* Verify that the checkboxes for these objects are, by default, selected
* Verify that the selection can be toggled
* Verify that the subscriber can be saved and activated with the selected objects
* Verify that the content of SERVICE\_AGREEMENT and SERVICE\_FEATURE is correct (no duplicates or conflicts), and that the campaign IDs are filled correctly
* Change PP: check the same like for the new CTN (step 1) for the following cases
* No campaign -> campaign
* Change campaign (SOCs/PPs are changed correctly)
* Remove campaign (SOCs/PPs are removed correctly)
* Perform steps 1 and 2 for future campaigns. The promotions should have future dates, too.
* Check that addition of future-dated existing campaigns (those that do not have the new objects) works correctly.
* Perform a small regression for reduced promotions.

## CR 1460 – Suspension Improvements

### Requirement Overview

#### FR1 - “One-Click” Requirements

* FR1-1 – A new “multi restore from suspension” screen is needed, which includes the following items:
* Reason Code (selectable)
* Charged amount (auto populated)
* Waive Charge button (clickable) - The default should be “No Waive”
* HAT date (auto populated)
* List of all BAN suspended subscribers (multi-select)

The user selects the reason code and the charge code, and the HAT date is then populated automatically.

* FR1-2 – Reason codes and account types / subtypes
* A new table is needed for configuring which codes should appear for which account subtypes – this will give Telia the ability to charge a fee per account subtype and reason.
* FR1-3 – New memos are required:
* Memo 1 - “Restore subscribers from suspend”, containing the following:   
  Line 1 - reason code + description + HAT date   
  From Line 2 on – list of subscribers
* Memo 2 – “Create charge” (Optional, only if the charge exists and was created (that is, Not waived))   
  Line 1 – Charge code and description + total amount charged.
* The memo text should be similar to that of the “Reprint” activity: “*Charge of [amount with two decimals] was created ([reason code])”*
* Or, in the case of a waiver: *“Charge was not created.*”
* FR1-4 - Restoring subscriber(s) from Suspend – multiple selection, including:
* Select all - will select all subscribers on the list
* De-select – will remove the selection of all subscribers on the list
* Manual selection of individual subscribers
* FR1-5 – Charging / Waiving:
* Using the existing charging mechanism and according to the charge setup for the given reason code, the system will always place the charge at the BAN level.
* The charge will be according to the Restore reason code and will be at the BAN level according to the specified amount for that reason code using the fee from the new table.
* The waiver button will work similarly to the existing waiving mechanism.
* The charge will actually be waived, not charged and auto-adjusted.
* The existing waive memo will reflect the amount of the waived fee and the waive reason.
* FR1-6 - HAT Date:
* The HAT date is determined by the number of days set up for the given account type and reason code. If the number of days is zero, HAT is not set.
* The HAT will only be set if the customer is not assigned to a collection agency and HAT was not already set to the future.
* If the HAT is not set since the BAN was assigned to a collection agency, or since HAT already exists, a message will appear specifying that the HAT was not set. (The Danish text version will be supplied by Telia before the CR is delivered to UAT.)
* In any case, existing future HAT dates should not be overridden by the new functionality.
* FR1-7 – New screen properties
* The new screen should have the look and feel of “Multi Resume from Cancellation”, which was developed for Telia last year.
* The grid list of subscribers should contain the following columns, in addition to the standard columns: Suspension reason description, a tick box (to include/exclude subscribers in this restore)
* At the bottom there should be a “total charged” amount field containing the total charges.
* FR1-8 - Only certain suspension reason codes should support “multi restore”, and only certain restore reason codes should be used for “multi restore”. The system should use the same logic as that of CR1330 (flag in CSM status activity) so that it will be possible to configure which codes are used.

#### FR2 - CCD Requirements

* FR2-1 – Change Customer Data (CCD) during suspension:
* When a SOC is added to a suspended subscriber, the system adds the SOC as if it was a future transaction, but with the current date; that is, the SOC is added and appears on the subscriber services, but NO switch transaction is sent.
* The “pending transaction” is kept in its state until the subscriber status changes to Active.
* FR2-2 – Restore after CCD

After the subscriber is restored, the system will execute the pending transactions and send the switch transactions to the network according to the order in which they were created.

### Market-Specific Notes

This CR is part of Fokus core module and is therefore available for both Netcom and Telia.

### Existing Functionality

Currently, it is not possible to restore multiple subscribers under a BAN.

### Proposed Solution Functional Specifications

#### Reference Application

* A new “MULTI\_RESTORE\_IND” field will be added to the CSM\_STATUS\_ACTIVITY table to mark the suspension and restore reason codes that are relevant for the multi restore activity. The Reference online screen will be enhanced to display and allow the user to maintain this field.
* This new field will be a non-mandatory dropdown field with Yes/No values
* A new table, “MULTI\_RESTORE\_ATTR”, will define new attributes for each account type and subtype that will be used in CSM during the new Multi Restore from Suspension activity.
* The reference application will be enhanced to have a new table and a new reference window that will be used to maintain the entries in the new table.
* The new screen will have the following fields:
* Account Type: This field will be a mandatory dropdown with values from the ACCOUNT\_TYPE table.
* Account Sub Type: This field will be a mandatory dropdown with values from the ACCOUNT\_TYPE table based on the selected Account Type.
* Reason Code: This field will be a mandatory dropdown with reason codes eligible for the Multi Restore activity from the CSM\_STATUS\_ACTIVITY table (“MULTI\_RESTORE\_IND” = Y).
* Charge Code: This field will be populated automatically with the charge code associated with the selected reason code from the CSM\_STATUS\_ACTIVITY table. This field is a Drop down field and user can select Charge Code other than the one populated by default with reason code .
* Charge Fee: This is an editable non-mandatory field that initially has a value of 0.
* HAT No. of Days: This field will be an editable non-mandatory field to define the number of days for Holding Automatic Treatment.

#### CSM

The CSM application will be enhanced as follows:

* A new “Selective Multi Restore from Suspension” menu item will be added under the ‘Actions’ menu for the BAN window. This menu will be available to both NetCom and Telia, and it will be disabled for NetCom using the security module.
* This new menu item will be enabled only for BANs which are in Open status.
* When the user selects the new “Selective Multi Restore from Suspension” menu item under the Actions menu, a new “Multi Restore from Suspension” window will be opened.
* The new window will have the following fields:
* Reason Code – The user can select a reason code from a dropdown list that will be displayed based on the data in the new reference table using the BAN’s account type and account sub type.
* Charge Amount – The amount will be populated automatically based on the chosen reason as it appears in the new reference table.
* Waive Charge checkbox – This will be unchecked by default.
* HAT date – This field will be automatically populated based on the ‘HAT Number of Days’ field in the new reference table. If this field has zero days, the HAT date will not be populated (will be empty).

Also, if the BAN is already assigned to an agency or already has a future HAT date set, the HAT date on the screen will not be populated.

In this case a message will be displayed to the user when opening the new window informing him that the HAT date will not be set.

One of the following messages will be shown based on the reason:

*“HAT Date will not be set because the HAT Date is already set for this BAN.”*

*“HAT Date will not be set because the BAN is assigned to an agency.”*

* The window will also show the list of suspended subscribers under that BAN that are suspended with a reason code eligible for the Multi Restore activity; that is, a reason that is marked as “MULTI\_RESTORE\_IND” = Y in the CSM\_STATUS\_ACTIVITY table.
* The user can select/deselect multiple subscribers to be restored using the checkbox provided for each subscriber on the list.
* The new window will also have two buttons, one for selecting all the suspended subscribers displayed on the list and another one to de-select all the subscribers. Any subscriber can be manually selected or deselected from the list.
* When the user clicks the Restore button, a new service csRsMulSusCtn will be called. This service will internally call the existing Restore Subscriber Tuxedo service.
* The new service to handle Restore for multiple subscribers csRsMulSusctn will be called from Online to restore the selected subscribers. The service will be structured as follows:
* A new input structure will be sent to the service including the new fields for the new window, charge code, charge amount, waive indicator and HAT date.
* The service will internally invoke the existing Restore Tuxedo service csRsSusCtn to restore each subscriber.
* The service will call a new function to create the charge and memos and to populate the HAT date.
* The service will return a new output structure which will contain the count of subscribers restored successfully and the count of subscribers not restored successfully.
* CSM Online will use these counts and display following message:

*“Activity completed. Number of subscribers Restored: %s Failed: %s”*

* A new function will be developed and called from the Multi Restore Tuxedo service, and will perform the following:
* The function will check if the charge amount is greater than zero and the waive indicator is not Yes, and will then create a BAN level charge based on the amount sent from the Online.
* The function will also check the HAT date that was calculated by the online screen. If this date is populated and not empty, it means that HAT should be set for this BAN, and the system will call an existing Tuxedo service, clUHldAutoTr, to set the HAT date.
* This function will also create the following memos:
  + - * A memo will be created for the “Create Charge” using the arCrChg service. This memo will be created only when a charge is created and not waived. The text for this memo will be something like: *Charge of [amount with two decimals] was created ([reason code]) for multi restore from suspension*.
      * A new memo will be created for a BAN with text similar to “<count of restored subscribers> Suspended subscribers on BAN <ban> are restored. Reason code: <rsn code> Reason description: <desc> HAT date: <HAT date>.” i.e. “4 Suspended subscribers on BAN 100159946 are restored. Reason code: RC1, Reason description: Customer Request HAT date: 15/3/2013.” The mmInMemo memo creation service will be called for this.
      * A memo will be created for all subscribers being restored, as in current practice.
* The Add Mass SOC process (CSMASSOC) job will be modified to allow SOC addition to suspended subscribers.
* The effective date for the SOCs in the SERVICE\_AGREEMENT and SERVICE\_FEATURE tables will be the run date of the MASS SOC process.
* The CSMASSOC process will be modified to not send the transactions to provisioning when the subscriber is suspended.
* The process will also create a future request to perform the provisioning. If the subscriber is suspended, the future request will be created with the status ‘HOLD’ and the date as the activity date so that it will not be processed by a future request job.
* The Restore Suspension Tuxedo service, csRsSusCtn, will be modified to handle the transactions that have a status of HOLD. When a subscriber is restored, this service will check any pending transactions with ‘HOLD’ status in the CSM\_FUTURE\_REQUEST table. If such activities are found, then the request status will be updated to ‘To be processed’ (‘R’) and the request date will be updated to the restore date.
* When the subscriber is cancelled, the HOLD transactions will be deleted.
* In this solution, a Recurring Charge will be levied from the date the service is added and not when it is provisioned. Provisioning will start with the End of Day process

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

* BPT No: 2918 – Insert new ONLINE\_MESSAGES
* BPT No: 2919 – Insert new ONLINE\_MESSAGES
* BPT No: 2920 – Insert new entry in TABLES\_LIST
* BPT No: 2921 – Insert new entry in TABLES\_LIST
* BPT No: 2922 – Insert new entry in MEMO\_TYPE
* BPT No: 2923 – Insert new entry in MEMO\_TYPE
* BPT No: 2924 – Insert new entry in CSM\_ACTIVITY
* BPT No: 2925 – Insert new entry in CSM\_ACTIVITY
* BPT No: 2932 – Insert new ONLINE\_MESSAGES
* BPT No: 2933 – Insert new ONLINE\_MESSAGES

### Telia/Netcom Responsibility

Telia is responsible to update the entries in CSM\_STATUS\_ACTIVITY and to create new entries in the new MULTI\_RESTORE\_ATTR table.

### File and Record Changes

N/A

### Database Structural Changes

#### CSM\_STATUS\_ACTIVITY (Modify):

Add a new column: MULTI\_RESTORE\_IND.

| Field Name | Attribute/Domain | PK/NN/FK | Description |
| --- | --- | --- | --- |
| MULTI\_RESTORE\_IND | Char(1) |  | Multi Restore Indicator |

#### MULTI\_RESTORE\_ATTR (New):

Add a new reference table:

| Field Name | Attribute/Domain | PK/NN/FK | Description |
| --- | --- | --- | --- |
| ACCOUNT\_TYPE | Char(1) | PK | Account type |
| ACCOUNT\_SUB\_TYPE | CHAR(2) | PK | Account sub type |
| REASON\_CODE | CHAR(4) | PK | Activity reason code |
| Control fields |  |  |  |
| CHARGE\_CODE | CHAR(6) |  | Charge code |
| CHARGE\_FEE | NUMBER(11,2) |  | Charge amount |
| HAT\_NO\_OF\_DAYS | NUMBER(3) |  | Number of days |

### Test Instruction

#### RFT Online

* Perform New and Modify activities on the CSM Status Activity screen with the new “Restore Multi Suspend” field.
* Check that a new screen for the “MULTI\_RESTORE\_ATTR” reference table is visible under the CSM section of the RFT application. Perform Add, Delete and Modify activities on the new screen.

#### CSM

* Check that a new “Multi Restore Suspended Subscribers” menu is visible under the Actions menu on the BAN window.
* Clicking on the new menu will open a new response window as shown in the above screen shots.
* Open a BAN in collection that is also assigned to any agency. Open the Multi Restore window and a message will pop up specifying that the HAT date will not be set as the BAN is already assigned to an agency.
* Open a BAN that has COL\_WAIVER\_EXPIRATION\_DATE set in the BILLING\_ACCOUNT table. Open the Multi Restore window, and a message will pop up specifying that the HAT date will not be set since the HAT Expiration date is already set for this BAN.
* Open the Multi Restore window for any open BAN, and the HAT Date will be calculated based on the HAT number of days in the new “MULTI\_RESTORE\_ATTR” reference table.
* The Reason Code dropdown will only contain the reasons eligible for Multi Restore.
* The suspended CTNs, which are suspended with a reason that has MULTI\_RESTORE\_IND set to ‘Y’ in the CSM\_STATUS\_ACTIVITY table, will be retrieved.
* Upon selecting any reason, its corresponding Charge amount will be populated from the new reference table.
* Select single/multi CTNs and, upon pressing Restore, the selected CTNs will be restored successfully.

## CR 1462 – Show Reminder Letter to Customer

### Requirement Overview

* FR1 - Chess requires the ability to see the reminder letter which has been sent to the customer. The information attributes exclusively related to the reminder letter requests for Chess customers will be provided in a new output file

### Market-Specific Notes

This CR is part of Fokus customized module and is therefore available for Netcom only.

### Existing Functionality

Currently, the Letter Production process prepares a generic output file containing letter information for all scheduled requests.

### Proposed Solution Functional Specifications

#### Letters Application

The Letter application will enhance the Letter Production process as follows:

* The existing Letter Production batch job, LTRVARSPROD, will be enhanced to create a new output extract file.
* The file will include letter request information exclusively for Chess customers.
* All letter requests matching the production date for Chess customers identified by their account type will be retrieved separately from the LETTER\_REQUESTS table.
* These requests will be written to a new output extract file.
* The data contents of this file will be separated by the ‘;’ delimiter.
* The naming convention of this file will be:
* ltr.LTRVARSPROD\_CHESS\_SPECIAL.$(BATCH\_DATE)\_$(TIME).layout.txt,

Where the BATCH\_DATE will have the ‘YYYYMMDD’ format and Time will have the ‘HHMMSS’ format.

* The existing output file transmission mechanism will be used to send the new output file.
* The file will have the following structure:
* Header record
* This will include the total number of letter requests retrieved for Chess customers. It will also include the extract file creation date and time, along with the Total outstanding amount.
* The Header record will be prefixed with ‘01’.
* The individual parameters will be separated by ‘;’.
* The parameters will not be enclosed in quotes.
* Data records
* Each letter will have one record for Invoice header.
* Each letter can have multiple records for Invoice details, depending on the number of invoices per letter request.
* Trailer record – This will contain the number of data records in the file and will be added to the end of the file.
* Record type will be added as a prefix for each record:
* 01 – File Header record
* 10 – Letter Header record
* 15 – Invoice details
* 20 – Old Customer ID
* 60 – Number of records per letter
* 99 – File Trailer record
* The template of the new output file will be as the attached below:



* An example of the new output file will be as attached below:



### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

* BPT No: 2926 – Insert new entry in LETTER\_VARIABLES
* BPT No: 2928 – Insert new entry in LETTER\_VARIABLE\_LINK

### Telia/Netcom Responsibility

N/A

### File and Record Changes

N/A

### Database Structural Changes

N/A

### Test Instruction

* Run the LTRVARSPROD job for all letter requests that include both Chess and non-Chess customers. Two output files should be created. Verify that the new output file is created according to the specified structure. Verify that Chess letters are contained in both output files.

## CR 1465 – Provisioning of New Parameters

### Requirement Overview

* FR1 - When a subscriber is ported between NetCom and service providers, it is moved from one BAN to another. In this case, the system is required to send the following new parameters to xIL:
* ServiceProviderId - This is the NP service provider ID of the recipient operator, for example 815 for NetCom or 817 for Chess
* BillCycleID – This is the Billing Cycle Code of the new BAN to which the subscriber was moved.
* SubscriberType – Either post-paid or prepaid
* Ban number
* Subscriber ID
* Primary SIM Number
* FR2 - The six parameters listed above should be sent to switch control (SC) with all the activities that are sending provisioning commands to SC.
* FR3 – The parameters need to be attached to a new switch feature

### Market-Specific Notes

The item for customization is part of the Fokus core module, and is therefore available to both Netcom and Telia.

### Existing Functionality

Currently, none of the above listed parameters is sent to provisioning with a new feature.

### Proposed Solution Functional Specifications

CSM will be enhanced to send the ServiceProviderId, BillCycleID, SubscriberType, BAN Number, subscriber id and SIM number parameters to Switch Control (SC); these will be sent as parameters to a new switch feature, which will be defined for this functionality and used hard coded in the CSM to SC interface.

The parameters will be sent together with any transaction that is currently sent, except in the case of change billing cycle, where a new CCD transaction will be sent.

Switch Control will be enhanced to send the parameters on to xIL in Netcom and to Foton in Telia. In Telia Denmark, it is the customer responsibility to do the development in both SC and Foton.

#### Reference Application

The Reference application will be enhanced as follows:

* A new NP\_OPERATOR\_CODE field will be added to the ACCOUNT\_TYPE reference table and used to identify the ServiceProvideId for each account type. For example, NetCom account types will have a value of 815 in this field, Chess account types will have 817, and each service provider will have its service provider ID.
* The online window for this table will be enhanced to display the new field and allow the user to maintain the data for this field.
* Amdocs can provide a script to fill the field in the existing entries in the ACCOUNT\_TYPE table.

#### CSM

The CSM application will be enhanced as follows:

* The system will be enhanced to send the new ServiceProviderId, BillCycleId, SubscriberType, BAN Number, subscriber id and SIM number parameters to Switch Control (SC).
* A first new function will be developed to add the six new parameters to any transaction currently sent to SC.
* The function will retrieve the new NP operator code from the new NP\_OPERATOR\_CODE field in the ACCOUNT\_TYPE table and populate this in the ServiceProviderId parameter.
* Next, the BAN Cycle Code of the new BAN will be retrieved and populated in the BillCycleId parameter. For example, if the number was ported in to NetCom, the cycle code of the NetCom BAN will be retrieved.
* The function will then retrieve the subscriber type and populate this in the SubscriberType parameter.
* The BAN number, subscriber ID and the primary SIM number will be also retrieved and populated in new parameters.
* These six parameters will be attached to a new switch feature and sent to SC together with the other features of the transaction.
* The new function will be called from the main function currently used to pack the parameters according to the customer features; this main function is called from all transactions sent to SC.
* The parameters will be sent with the new and /or previous values, depending on the transaction.
* This new function will cover all switch related scenarios, including but not limited to the following:
* Move subscriber from BAN to BAN (for any reason)
* Activate new subscriber
* Resume cancelled subscriber
* Change subscriber services
* Change subscriber type
* In the specific case of change bill cycle, either by performing the activity on the BAN or by adding the BAN to a hierarchy, currently no provisioning transactions are sent.

To send the new parameters in these cases, the system will be enhanced as follows:

* The change bill cycle activities will be enhanced to schedule a future transaction to send the new cycle code to SC. A new entry will be created in CSM\_FUTURE\_REQUEST table with the activity date equals to the date where cycle will be actually changed.
* A second new function will be developed to send a CCD transaction to SC when the bill cycle is changed.
* This function will retrieve the list of all active and suspended subscribers on the BAN.
* For each subscriber, the system will call a third new function that will retrieve the values of the six parameters for each subscriber, and send these to SC as explained above for the rest of the switch transactions.
* The future transactions process will be enhanced to handle the change cycle request on the change cycle date by calling the new functions mentioned above.

#### Switch Control

The Switch Control application will be enhanced as follows:

* A new feature will be sent by CSM with the ServiceProvideIs, BillCycleId, SubscriberType, BAN Number, subscriber id and the primary SIM number (SubscriberNumber optional) parameters for all SC transactions.
* The new features will have the Previous and New flags correctly set for each transaction type (for example: only New for Activation, only Previous for Cancel, and both New and Previous for the rest).
* Switch Control will send the new parameters to xIL (ProfileServer) when a subscriber is activated (part of the root create commands).
* Switch Control will send an update command to xIL when there is any change in the feature parameters.
* Switch Control will not delete the account node, and the subscriber profile (including account node) will be fully deleted when the subscriber is cancelled.
* No commands will be sent in the case of Change IMSI, Suspend and Restore.
* In the case of Change MSISDN, Account Delete (old number) and Account Insert (new number) commands will be sent to ProfileServer.
* SC will be also enhanced to send these parameters to Foton in Telia

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

* Amdocs will define a new NEWPAR switch code will be defined in the system and will be used when sending the new parameters to the Switch Control.

### Telia/Netcom Responsibility

* Telia is responsible to define the required parameters in SC tables and to make the necessary development on SC an d Foton side.

### File and Record Changes

N/A

### Database Structural Changes

#### Modified ACCOUNT\_TYPE Table

The following field will be added to the ACCOUNT\_TYPE table:

| Name | Type (Length) | Description | Valid Values | Domain Name | New/ Delete/ Update |
| --- | --- | --- | --- | --- | --- |
| NP\_OPERATOR\_CODE | CHAR(5) | Service provider ID |  | CSSRVOPR | New  Not Null field |

### Test Instruction

#### Reference

Testers must perform the following procedures:

* Open the ACCOUNT TYPE window and ensure that the “NP Operator Code” field is visible.
* Change the value of this field for new or existing entries and select Save.
* Ensure that the data is saved correctly in the database.

#### CSM

Testers must perform the following procedures:

* Move subscriber
* Change subscriber services
* Change subscriber type
* Activate new subscriber
* Resume cancelled subscriber
* Change bill cycle
* Add BAN to hierarchy, which triggers a change of the bill cycle.
* For all the above activities, check Q1 and Q1\_FTR to ensure that the six new parameters are sent correctly.

#### Switch Control

Testers must perform the following procedures:

* Activate new subscriber
* Move subscriber
* Change subscriber bill cycle
* Change subscriber type
* Change subscriber service provider ID
* Resume cancelled subscriber
* Change MSISDN
* Change IMSI
* Cancel subscriber
* For all the above activities, check that the correct parameters are sent to ProfileServer.

## CR 1467 – BAN Level Services

### Requirement Overview

* FR1 - Move activity – we need a new SOC level flag to “force” (or not) a change of price plan upon move subscriber activity.

### Market-Specific Notes

The item for customization is part of the Fokus customized module, and is therefore available to Netcom only.

### Existing Functionality

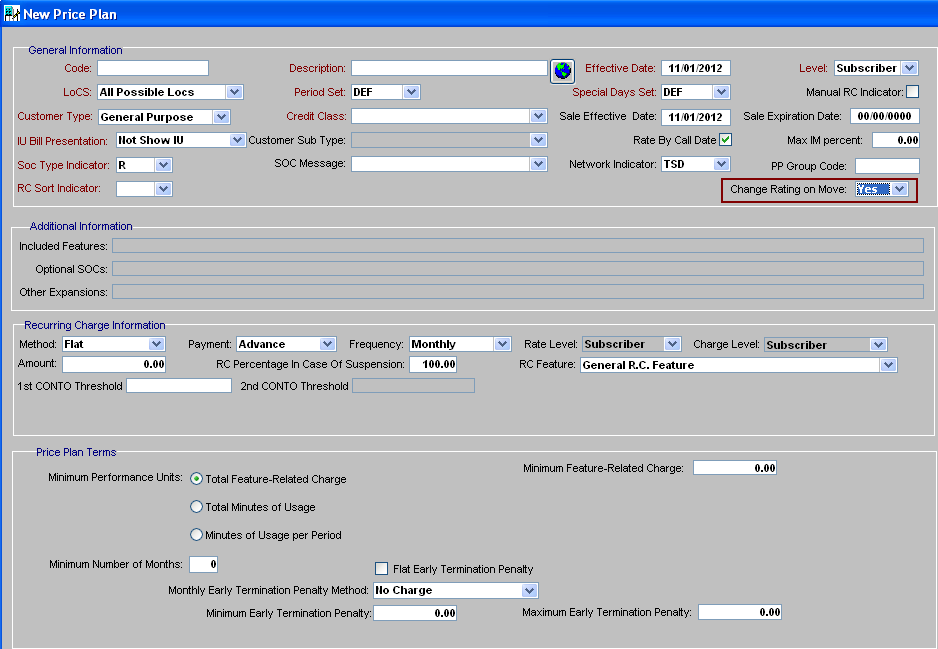
Currently, it is not possible to force a Change Price Plan during Move Subscriber Activity.

### Proposed Solution Functional Specifications

#### Price Plan

The Price Plan application will be enhanced as follow to support FR1:

* A new CHANGE\_RATING\_ON\_MOVE field will be added to the SOC table, the field will have a yes/no (Y/N) values and will indicate whether or not the price plan must be changed when moving subscriber from BAN to another. Empty value in this field will be treated as No so there is no need to update existing price plans if these should have the value N in this field.
* The Price Plan window will be enhanced to display the new field and to allow the user to maintain it for new and existing price plans. The field will have a drop down list with Yes () and No (N) values, with N as the default value.
* When the field is changed for an existing price plan a new version of the price plan will be created.
* This field has no meaning for SOCs and promotions so it will not be visible in the SOCs and promotions windows, it will not appear on the campaign window as well. See the below screen shot.



#### CSM

* CSM application will be enhanced as follow to support FR1:
* When a subscriber is moved from BAN to another the system will check the value of the new CHANGE\_RATING\_ON\_MOVE field for the existing price plan.
* If the value is N (no) or empty the move will be performed as of today.
* If the value of this field is Y (yes) the system will force the user to change the price plan on the subscriber before completing the move activity.
* If the user clicks the Move button without changing the price plan, the system will display below message to the user informing him/her that the move can’t be performed and the user must change the price plan first.

“Please perform a Change Rating before Move.”

* If the User chooses the same price plan again from the Custom package/Campaign lookup, existing message to choose a different Price Plan will be shown.

#### External Systems

* All External systems should be enhanced to perform the validations as done in CSM.

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

N/A

### Telia/Netcom Responsibility

Telia is responsible to update the new field in SOC table for the relevant price plans.

### File and Record Changes

N/A

### Database Structural Changes

#### SOC (Changed)

| Field Name | DB Type | Domain | Valid Values | Remarks |
| --- | --- | --- | --- | --- |
| CHANGE\_RATING\_ON\_MOVE | CHAR(1) | yesnoind.dom | Y/N/NULL |  |

### Test Instruction

#### Price Plan

* Create a new Price Plan. The new ‘Change Rating on Move’ field will be visible and non-mandatory.
* Create or Update Price Plans with some valid values in the new field.
* Check that this new field will not be visible in other type of SOC or Promotion windows.

#### CSM

* Try to move a Subscriber with Price Plan having new indicator “CHANGE\_RATING\_ON\_MOVE” as ‘N’/NULL without change rating, no Error message will occur and Move should be successful.
* Try to move a Subscriber with Price Plan having new indicator “CHANGE\_RATING\_ON\_MOVE” as ‘Y’ without change rating, an Error message will occur saying to perform Change Rating and the activity will be stopped.
* In above scenario, perform change Rating and select the same Price Plan and try to Move, activity is not allowed until Price Plan is changed.
* Perform Change Rating choosing different Price Plan and click on Move, Move activity will be successful.

## CR 1479 – Enhanced FYI for Bill Type and Enclosures

### Requirement Overview

* FR1 - Telia needs to be able to add material (page inserts) to invoices based on more specific customer segmentation than what is currently possible. This must be done with TLE as described in the document from print shop and configured/triggered via FYI-parameters.



The implementation should be for all customers, all bill types and regular bills (positive/negative – faktura/kreditnota).

* FR2 - The FYI parameters need to be enhanced to configure bill-type/production-type (first, regular, final and revised).

### Market-Specific Notes

The item for customization is part of the Fokus customized module, and is therefore available to Netcom only.

### Existing Functionality

Currently, in all Telia AFP output files produced by ADD (regular bill, manual notes, SP bill, bill on demand and central reprint requests), a set of TLE records is written for each bill.

Each TLE set contains:

* Customer account number (BAN)
* Customer name
* Invoice number
* Bill balance
* Subscriber number – subscriber number in the case of a single subscriber BAN, or “00000000000000000000” in the case of a multiple subscriber BAN

These are invoice level TLEs, meaning that one TLE set is inserted for each bill. Therefore, in an output file with 10 bills, there will be 10 sets of TLE records as in the example below.

For each TLE set, an account number is defined as the page group. The page group is set at the invoice level, so that each bill in the file has one page group.

**Existing TLE set example:**

BDT - Begin Document

BNG - Begin Named Page Group '000517758801'

TLE - Tag Logical Element ‘accountnumber’ '000517758801'

TLE - Tag Logical Element ‘customername;' 'Jeanette Prang’

TLE - Tag Logical Element ‘invoiceno’ ‘4963114905001’

TLE - Tag Logical Element ‘billbal’ ‘000000000638.14’

TLE - Tag Logical Element ‘subscriberno’ 'GSM04530307394 '

BPG - Begin Page

EPG - End Page

……………………..

BPG - Begin Page

EPG - End Page

ENG - End Named Page Group '000517758801'

EDT - End Document

.

### Proposed Solution Functional Specifications

#### Reference Application

The RFT application will be enhanced to display the new PRODUCTION\_TYPE field in the windows related to the FYI\_PARAMETERS table.

Users will have the ability to maintain the new field for existing and new entries.

The RFT application will be enhanced to display the new SHORT\_COUNTRY\_CODE field in the windows related to the FOREIGN\_COUNTRY table.

Users will have the ability to maintain the new field for existing and new entries.

#### ADD

ADD will enhance the existing invoice level TLE by adding the attributes Strålfors requires for page inserts to it.

The TLE will continue to be defined at the invoice level, so that each bill in the output file will have one set of TLE records.

For each TLE set, the account number will continue to be defined as the page group, so that both the page group and the TLE set are defined at the invoice level.

The page inserts will be configured/triggered via FYI\_PARAMETERS.

Entries with fyi\_message\_type of “P” will be created for page inserts, and the page\_insert\_code field will be populated for them.

In the case of central reprint files, if a requested bill was archived before this CR is delivered to production, spaces will be placed in the new TLE attributes, since only the values for the existing TLE attributes will be found in the archive. The exception will be the new attributes which have harcoded values, like the PRINTSWITCH , which do not depend on any archived bill value.

The INSERT1..INSERT4 attributes will always be space in case of central reprint.

See example below.

TLE - Tag Logical Element ' ENVIDENT '00517758801'

TLE - Tag Logical Element 'ZIPCODE' ' '

TLE - Tag Logical Element 'COUNTRYCODE' ' '

TLE - Tag Logical Element 'PRINTSWITCH' 'J '

TLE - Tag Logical Element 'ARCHIVESWITCH' 'N'

…

TLE - Tag Logical Element 'INSERT1' ' '

TLE - Tag Logical Element 'INSERT2' ' '

…..

TLE - Tag Logical Element 'NAME1' ' '

TLE - Tag Logical Element 'NAME2' ' '

…..

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

N/A

### Telia/Netcom Responsibility

N/A

### File and Record Changes

N/A

### Database Structural Changes

#### FYI\_PARAMETERS – Modified

This reference table will be enhanced to have the following new field:

| Name | PK/NN | Type (Length) | Description | Valid Values | Domain Name | New/ Delete/ Update |
| --- | --- | --- | --- | --- | --- | --- |
| PRODUCTION\_TYPE | NN | Char(1) | Bill production type |  | BLPRODTP (existing) | New |

#### FOREIGN\_COUNTRY – Modified

This reference table will be enhanced to have the following new field:

| Name | PK/NN | Type (Length) | Description | Valid Values | Domain Name | New/ Delete/ Update |
| --- | --- | --- | --- | --- | --- | --- |
| SHORT\_COUNTRY\_CODE | NY | Char(2) | Short country code |  | SHCNTRCD (new) | New |

It is Telia and Netcom responsibility to populate the SHORT\_COUNTRY\_CODE as per the ISO 3166-1-alpha-2, meaning two digit codes (see http://www.nationsonline.org/oneworld/country\_code\_list.htm for mapping)

### Test Instruction

#### ADD

As a result of the changed functionality, the following issues must be checked:

* The presence of the new “PRODUCTION\_TYPE” and “SHORT\_COUNTRY\_CODE” fields in the reference extract
* TLE set is inserted for each bill in an envelope and its attributes and values are as per the table in section 7.2.1

Affected AFP output that must be tested is:

* Telia/Callme/DLG paper bills for EBOKS and non EBOKS
* Netcom paper format in English and Norwegian
* Telia and Netcom service Provider bills
* Telia and Netcom manual notes
* Telia and Netcom central reprint
* Telia and Netcom bill on demand
* Regression testing must be performed for all processes related to bill production: regular bill production, QA, bill on demand, manual notes, local and central reprint, and bill image.

#### RFT

* Open the FYI parameters table and ensure that the new PRODUCTION\_TYPE field is visible.
* Change the field for an entry and save; ensure that the data is saved in the database.
* Create a new entry and ensure that the production type is also populated correctly

## CR 1480 – Collection on Invoices

### Requirement Overview

* FR1: Create an immediate credit on the invoices that only have collection fees and invoice fees to make sure that they don’t enter collection.
* FR2: The invoice should only be credited when it is eligible to be made delinquent; that is, has a due date + a collection grace period.
* FR3: Generate a report of the invoices that have been credited.
* FR4: Generate a report of payments on the invoices that have been credited.

### Market-Specific Notes

The item for customization is part of the Fokus customized module, and is therefore available to Telia only.

### Existing Functionality

Currently, there is no functionality to have invoices with only collection and/or invoice fees skip collection.

### Proposed Solution Functional Specifications

#### AR

* A new process will be defined to identify and credit open invoices that only have collection and/or invoice fees.
* The process will only identify open invoices that are eligible to be made delinquent - Due Date of Invoice >= Due Date of invoice+ Collection grace period (currently 6 days)
* An immediate credit will be created for the invoices that only have collection and/or invoice fees. The customer will not be informed about the credit via a credit note or in the next bill.
* The new process will be scheduled to run daily before the collection evaluation process.
* A new table will be created to store the invoices that have been credited by the new process.
* A daily report will be generated, containing the invoices that have been credited by the new process.
* A weekly report will be generated, containing payments on the invoices that were credited by the new process.

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

* Amdocs will create a new entry in the ADJUSTMENT\_REASON table for reason code ‘CRCLFE’ which is relevant only for Telia

The entry will be created from Price Plan online before V21 production.

* Amdocs will create three entries in the AR\_BATCH\_CONTROL table for jobs: ARCLCRDINV, ARCLCRDREP and ARCLPYINREP. The Last\_Effective\_Date for the three entries will be set to sysdate i.e the production date. BPT 2929 created for this.
* 3 New jobs will be defined for this CR: ARCLCRDINV, ARCLCRDREP, ARCLPYINREP, These will be part of the EOD map.

### Telia/Netcom Responsibility

N/A

### File and Record Changes

N/A

### Database Structural Changes

#### COL\_CREDIT\_INVOICE (New):

This new table will store the invoices credited by the ARCLCRDINV job.

| Field Name | Attribute/Domain | PK/NN/FK | Description |
| --- | --- | --- | --- |
| BAN | ban.dom | NN | BAN |
| INV\_VOUCHER\_NUM | vchnum.dom | NN | Voucher number of the invoice credited |
| INV\_AMOUNT | amtreg.dom |  | Total amount of the Invoice. Equal to CHARGES\_AMT from the Invoice\_Item table |
| ACTV\_DATE | date.dom | NN | Date on which the entry was created |
| CRD\_VOUCHER\_NUM | vchnum.dom | NN | Voucher number of the credit created on the invoice by the ARCLCRDINV job |
| CRD\_AMOUNT | amtreg.dom |  | Amount of credit created on the invoice by the ARCLCRDINV job. |
| AR\_BALANCE | amtreg.dom |  | AR\_BALANCE of the BAN after the invoice is credited by the ARCLCRDINV job |

### Test Instruction

* Select BANs that have invoices with:
* Only collection fee charges
* Only collection and invoice fee charges
* Collection fees with other zero rated usage charges or discounted RCs, such that the amount of the invoice is due to collection fees.
* Collection and invoice fees with other non-zero charges
* Run the ARCLCRDINV job. The invoices should or should not be credited according to the charges they have. Entries should be created in the COL\_CREDIT\_INVOICE table.
* Run the ARCLCRDREP job to generate the credited invoice report.
* Make invoice level payments on some of the credited invoices.
* Run the ARCLPYINREP job to generate the report of payments on credited invoices.

## CR 1481 – Video Conference

### Requirement Overview

* [FR01] **File Structure** 
  1. The Video CDRs will be delivered in dedicated files and will not be mixed with the Mobile Office CDRs.
  2. BW.source will always be “VIDYO”.
  3. The format of the Video CDR files will be exactly the same as the CSV CDR file format already implemented for Mobile Office, with header, normal and trailer records.
     + The CDR format is CSV. Included fields and their length can be found in [BroadWorks CDR Format - list of fields v.1.0.xlsx](#_BW_00_Layout).
     + Each CDR file will start with a Header record (type = H) and end with a Trailer record (type = T). These records should be skipped by MAF.

Currently the “Normal” CDR type has 84 fields. The “Normal” CDRs will start with an “N”. If a CDR contains more than 84 fields, MAF should still be able to read/decode the CDR file. Any additional field after the 84 defined fields will be ignored.

* [FR02] **Video recordTypes**
* The following new recordTypes are defined for VIDYO:
* 80 = Recording Service
* 81 = Voice Service
* 82 = Legacy Service
* 83 = Guest Call

All VIDYO recordTypes should be distributed to MAFUSAGE.

* [FR03] **Forward Type**

If BW.trafficDirection = O then MAF.FORWARD\_TYPE = O

(BW.trafficDirection = O is the only possible value)

* [FR04] **Service**

The following MAF SERVICE values should be defined:

* + 1. IF BW.serviceType = 0 AND BW.serviceCode = 1R THEN MAF.SERVICE = VIDYOR
    2. IF BW.serviceType = 0 AND BW.serviceCode = 1V THEN MAF.SERVICE = VIDYOV
    3. IF BW.serviceType = 0 AND BW.serviceCode = 1L THEN MAF.SERVICE = VIDYOL
    4. IF BW.serviceType = 0 AND BW.serviceCode = 1G THEN MAF.SERVICE = VIDYOG
* [FR05] **Message Identifier**
* The unique message identifier for each BW record is called “BW.recordId”.
* [FR06] **Number Normalization**
* Not relevant
* [FR07] **Mapping to MAFUSAGE**

Mapping to MAFUSAGE for all VIDYO recordTypes will be the same as for the Mobile Office recordType = 01 (BW.source = BW and BW.recordType = 01).

* [FR08] **Mapping to WH**
* Mapping to WH for all VIDYO recordTypes should be similar to the BroadWorks recordType = 01 implemented in the Mobile Office project, except that if BW.source = VIDYO then BW.conference.confId should be mapped to WH.THIRD\_PARTY and BW.userID should be mapped to WH.CALLREFERENCENUMBER.

Please be aware that there are many less fields populated in the CDR file for VIDYO compared to the number of fields populated for Mobile Office traffic. However, as mentioned above for the fields that exist, the mapping for VIDYO is the same as for Mobile Office, except for the two special mappings described above.

* [FR09] **Number Enquiry Calls**
* Not relevant
* [FR10] **NPDB Lookup**
* Not required
* [FR11] **Outbound Roaming**
* Not relevant
* [FR12] **Product Type**
* Product Type = GSM
* [FR13] **Call Assembly**
* Not relevant
* [FR14] **CUG/VPN**
* Not relevant
* [FR15] **Call Attempts**
* Not relevant

### Market-Specific Notes

The item for customization is part of the Fokus customized module of the NetCom MAF module, and is therefore available to NetCom only.

### Existing Functionality

N/A

### Proposed Solution Functional Specifications

#### MAF

#### BW Format

* MAF processes (Listener and Main Driver) are already capable of handling the “BW” format.
* To populate the WORK fields, new RBMS correction/matching/editing/distancing/rating rules will be written.
* MAF code will be enhanced to support the business logic for the following:

| Record Types | Name |
| --- | --- |
| 80 | Recording Service |
| 81 | Voice Service |
| 82 | Legacy Service |
| 83 | Guest Call |

* All events will be distributed to MAFUSAGE.
* The population of call\_characteristic will be the same as currently done for the existing BW.
* To map output USAGE fields, new mapping rules will be written.
* To map output WH (UDWH) fields, new mapping rules will be written.
* If there is any error on an input record, that record will be distributed to a new file type, BW\_ERROR. To map output ERROR fields, new mapping rules will be written.

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

A BPT will be run to create entry in ERROR\_CODES table. This is needed to handle error handling for traffic\_direction in BW format.

### Telia/Netcom Responsibility

N/A

### File and Record Changes

N/A

### Database Structural Changes

N/A

### Test Instruction

#### MAF Application

* Processing of BW records through MAF should include the following scenarios:
* Video Call in new format
* Regression: MOC to NetCom with VPN/ CUG for normal BW format
* Regression: MOC to NetCom with no VPN/ CUG for normal BW format
* Usage and WH records should be produced according to the requirements mentioned.
* Error records should be sent to the Error Handler process and the Error Handler should be able to process the records successfully.

#### MPS Application

* The Guiding and Rating processes should be able to complete without failures. Usage for postpaid calls should be rated correctly and inserted into US/AU tables.

## CR 1483 – Enhanced Multiple Letter Output

### Requirement Overview

* FR1 - Telia needs to be able to support Fokus letters in email. Fokus will split the letter output into two files based on letter media and customer data. A new output “email” file will be created containing the requests of “e-mail” media type. The media for each letter request will also be visible for CSRs in the letter-list (column media) in CSM online.

### Market-Specific Notes

This CR is part of Fokus core module and is therefore available for both Netcom and Telia.

### Existing Functionality

Currently, the Letter Production process prepares a generic output file containing letter information for all scheduled requests, which is distributed via the default delivery media, “File”.

### Proposed Solution Functional Specifications

#### Letters Application

The Letter application will enhance the Letter Production process as follows:

* The existing Letter Production batch job, LTRVARSPROD, will be enhanced to create a new output extract file.
* The job will be enhanced to support the email delivery media as defined in the reference table.
* The job will be modified to check and set the final letter delivery media.
* The job will check if the letter code is defined with LETTER\_DEF\_MEDIA = ‘E’, then:
* If the letter request is set up with the LEGAL\_EMAIL letter variable in the LETTER\_REQUEST\_VARIABLE table, then the customer’s legal email address will be used.
* If the customer’s legal email address is defined, the letter delivery media will be set to ‘Email’.
* Otherwise, the letter delivery media will be set to the default mechanism; that is, “File”.
* In all other cases, the email address defined in the customer’s billing address will be used.
* If the customer’s billing address has an email address configured, the letter delivery media will be set to ‘Email’.
* Otherwise, the letter delivery media will be set to the default mechanism; that is, “File”.
* If the customer does not have an email address defined for the relevant case, then the delivery media defined in the letter request will be overridden with the default mechanism; that is, “File”.
* The new file will include letter request information for all those letters that have letter delivery media configured as “Email”. This will include letters which originally had delivery media as “Email” and will also include letters for whom delivery media ended up being configured as “Email”.
* The existing file created by the batch job will include letter request information for all those requests that have letter delivery media configured to something other than “Email”.
* The format of the two files will be the same format as the current file:
* The data contents of this file will be separated by the ‘,’ delimiter.
* The new output file will have one line for each letter.
* The naming convention of this file will be:
* LTR.email\_letters.$BATCH\_DATE.input, where the BATCH\_DATE will have the ‘YYYYMMDD’ format.
* The existing output file transmission mechanism will be used to send the new output file as well.
* The file will have the same structure as the existing file, with the following records:
* Header record
* This will include the list of all letter parameters, as found in the LETTER\_VARIABLES table.
* The parameters are sorted by parameter name.
* The parameters are enclosed by “”.
* The parameters are separated by “,”.
* Data records
* Each letter will have one data record.
* Each data record will contain parameter values, which match the order in the header record.
* The values are enclosed by “”.
* The values are comma limited.
* A blank field will contain only “”, for example: "INV0081434555","","INV0082170577"

#### CSM

Currently, all letters can be viewed by CSRs in CSM Online.

CSRs will be able to view the media for each letter request as populated in the LETTER\_REQUESTS table on the Letters-List screen.

The letter list query will be enhanced to show the media description instead of the code. For example, instead of showing the D in the media field, the text ’File’ will be displayed.

### Impact on Other Applications

N/A

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

N/A

### Telia/Netcom Responsibility

N/A

### File and Record Changes

N/A

### Database Structural Changes

N/A

### Test Instruction

* Run the LTRVARSPROD job for letter requests having LETTER\_DEF\_MEDIA defined as ‘E’. The job should create a new output file. Verify that its structure and contents match as described in the solution.
* Run the LTRVARSPROD job for letter requests having LETTER\_DEF\_MEDIA defined as ‘E’ but for customers that do not have either a Legal or Billing email address configured. The job should write these letter requests to an existing output file.
* View the letter delivery media for the Letter requests in the Letter List window.

## CR 1489 – Flexible Leasing

### Requirement Overview

* FR2-2 - It should be possible to define on the SOC whether CN (cancel) and settlement are performed on a subscriber. When the subscriber is cancelled, it should be invoiced according to the original subscriber-level agreement on the BAN, or this should always trigger a direct settlement of the Loan/Leasing SOC. If the Settle Loan/Leasing function is used, the settlement should be performed instantly, regardless of the registration level on the BAN or subscriber.
* FR2-3 - The settlement rules in the Collection steps should not be affected by this change.
* FR2-4 - Tuxedo services should be supported or created for all parts of Requirement 2

### Market-Specific Notes

This CR is part of Fokus core module and is therefore available for both Netcom and Telia.

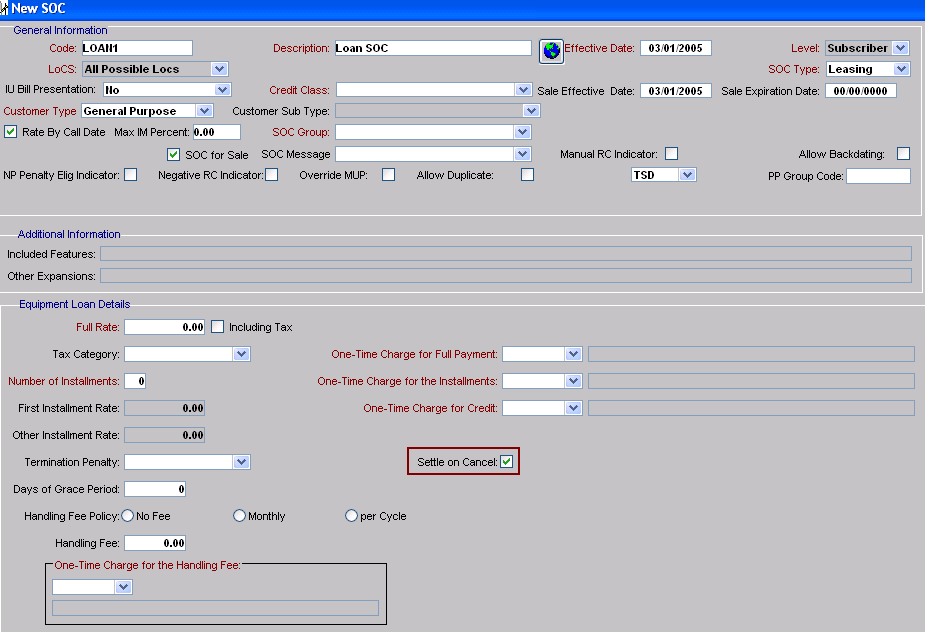
### Existing Functionality

Currently, when a subscriber with a Loan/Leasing SOC is canceled, then those SOCs will always be settled.

### Proposed Solution Functional Specifications

#### Price Plan Application

* The SOC\_LOAN table will be enhanced to have a new SETTLE\_ON\_CANCEL indicator; the online window will be enhanced accordingly. By default, this field will be checked.
* The SETTLE\_ON\_CANCEL field will be used to determine whether the loan should be settled when the subscriber is cancelled, or copied to the BAN level.



#### CSM

The CSM application will enhanced as follows:

* The Cancel Subscriber activity in CSM will be enhanced to check whether the subscriber has an active Loan/Leasing SOC. If an active Loan/Leasing SOC is found, the system will check the SETTLE\_ON\_CANCEL indicator for that loan. If the indicator is set to No and the Loan/Leasing is outside the Grace Period, the system will not settle the loan, as is currently done, but will expire the loan from the subscriber level and create it at the BAN level.

The loan will be created with the same status it had on the subscriber, so that Billing will continue to charge the Loan/Leasing SOC.

* The Loan/Leasing SOCs will be expired with existing reason code,.
* If the Loan/Leasing SOC is within the Grace Period when the subscriber is canceled, then the SOC will be canceled as of currently done.
* The BAN-level SOC will be a duplicate of the subscriber-level SOC in all regards, except that it will be at the BAN level (meaning SUBSCRIBER\_NO in SERVICE\_AGREEMENT and SERVICE\_FEATURE table will be equal to 0000000000). The values of EFFECTIVE\_DATE and LOAN\_SEQ\_NO and most of the other fields will be copied from the subscriber entry.
* The SERVICE\_AGREEMENT table will be enhanced to have a new LOAN\_SUB\_ID field; this field will contain the subscriber ID of the subscriber whose cancelation resulted in the creation of the SERVICE\_AGREEMENT entry. This is needed, to:
* Keep track of the payments made for the SOC in the SUBSCRIBER\_LOAN table. Billing will use this field together with the loan sequence number to find the correct entry in SUBSCRIBER\_LOAN table.
* Keep information on which subscriber had the Loan SOC.
* Allow the ADD system to display subscriber/payment information in the invoice
* The changes mentioned above in CSM application will be performed only when subscriber level commitment period has been completed. If subscriber commitment is still remaining, then existing functionality of settling Loan will be applied when subscriber is being canceled from CSM.
* Regardless of the subscriber commitment period, for Corporate subscribers which have Leasing/Loan SOC, the loan will always be settled when the cancel subscriber activity is performed.

For this the SETTLE\_ON\_CANCEL\_IND will be set to ‘Y’ for Leasing/Loan SOCs setup for Corporate customers.

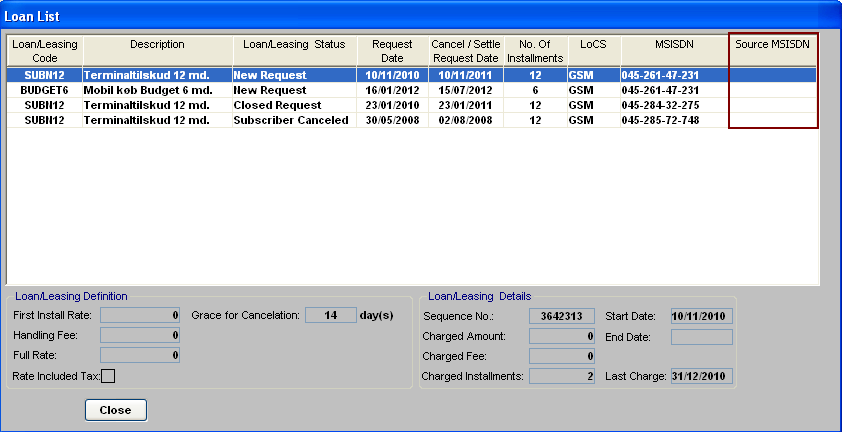
* For consumer customers being cancelled after commitment period has been completed, the new functionality described in this section will apply.
* If the subscriber being canceled from CSM, as part of a port-out process or a future job, is the last subscriber under the BAN, the BAN will remain open. This will be implemented by calling the Cancel Subscriber routine instead of the Cancel BAN routine from CSM and the future job.

Note Canceling a BAN will cancel/settle all the Subscriber Loans under it as of today.

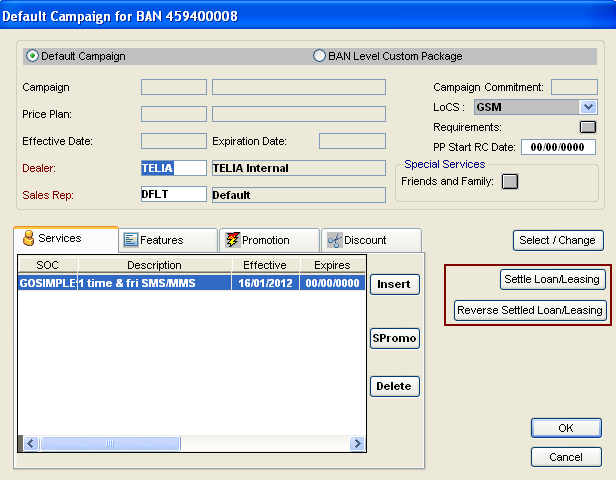
* The Cancelation window in CSM Online will be enhanced as follows:
* Currently while cancelling the last subscriber under the BAN, CSM Online calls the BAN Cancelation service to cancel BAN.
* The CTN Cancelation screen will be enhanced to check whether there are any Loan/Leasing SOCs effective on the BAN in the case of Last subscriber cancelation. If such a SOC exists, only the Cancel CTN service will be called and the BAN will remain open.
* In addition, in the case of cancelation of the last CTN, if the CTN has a Loan/Leasing SOC eligible for moving on to the BAN (with CANCEL\_ON\_SETTLE as ‘N’) and outside the grace period, then only the Cancel CTN service will be called and the BAN will remain open.

The Cancel CTN service will then add the Loan/Leasing SOC on the BAN.

* In all other cases, cancelation behavior will remain as it is today.
* BAN Cancel functionality will be enhanced to settle the existing BAN Loan/Leasing SOCs.
* The existing Loan/Leasing SOC List Query screen will be enhanced to show the BAN-level Loan/Leasing SOCs that are effective due to Subscriber cancelation when opened for BAN tab pages, together with other Loan/Leasing SOCs effective on all the subscribers under it.
* An additional field “source MSISDN” will be added to the Loan/Leasing SOC List Query screen which will show the subscriber number from which the loan has been moved to BAN level due to cancelation.



* For Loan SOCs effective on the subscribers, this field will be empty
* The existing Tuxedo service blLsSocLoan will be enhanced to return BAN-level Loan/Leasing SOCs information to CSM Online along with the new field Source MSISDN. This will be used to display the BAN-level Loan/Leasing SOCs in the BAN-level Services window for Settling
* It will not be possible to add a new BAN-level Loan/Leasing SOC. BAN-level Loan/Leasing SOCs will only be created by the automatic process during subscriber cancelation.
* The BAN-level Service screen will be enhanced to add two new buttons: Settle Loan/Leasing and Reverse Settled Loan/Leasing



* **Settle Loan/Leasing** will be used for settling any Loan/Leasing SOCs that are effective on BAN due to subscriber cancelations. Existing screen for Settling Loan/Leasing will be opened and the changes will be finally saved after clicking OK in the BAN-level Services window. This button will be enabled only if there are any effective Loan/Leasing SOCs.
* **Reverse Settled Loan/Leasing** will be used for reversing of the previously settled Loans on BAN. This will also open the existing screen for Reversing Settled Loan SOCs.
* The CSR will not be able to change the effective and expiration date of the BAN-level Loan/Leasing SOCs or delete the SOCs. Any such SOC will be expired when the CSR chooses the Cancel/Settle option, and these operations will be processed when the BAN-level Services window is saved.
* Currently, in the case of new subscriber activation, the CTN-level SOCs on a BAN will be added by default to a new subscriber. CSM Online will be enhanced to skip the Loan/Leasing SOCs being added as a default on new subscribers.
* Services arLsDefAgr and arLsDefFtr will be enhanced to get the default BAN SOCs except the Loan/Leasing SOCs.
* A new report job will be developed to find all the open BANs that do not have any active, suspended or reserved subscribers, and do not have any effective BAN-level SOCs. For these BANs, a final report will be prepared with the list of BANs. The use can use this report to cancel the BANs that need to be cancelled.

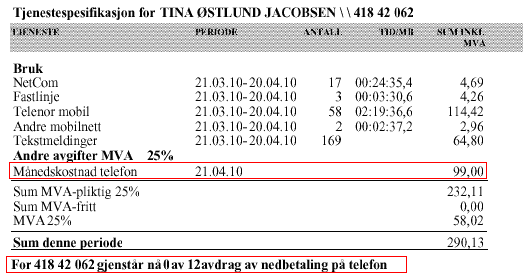
#### Billing

* BLPREP will be modified in the case of Cancel CTN; to check always if CTN has been cancelled after commitment period has been completed. If so (FTR EXPIRATION DATE > COMMIT END DATE), the BLPREP will check SETTLE\_CANCEL IND from the SOC\_LOAN table, to determine whether the subscriber-level Loan/Leasing should be settled or this Loan/leasing should not be handled because the new BAN-level Loan/Leasing SOC will be handled instead.
* In the case of a BAN-level Loan/Leasing SOC ,BLPREP will check and extract a new field LOAN SUB ID from the SERVICE\_AGREEMENT table:
* To get the original LOAN/Leasing record from SUBSCRIBER\_LOAN table and continuously charge the loan from the point at which the subscriber-level loan stopped;
* To get the original SUBSCRIBER NO and to populate the BILL\_COMMENT field in the CHARGE table with this number;
* To get the remaining balance information from the SUBSCRIBER\_LOAN table and populate the BILL\_COMMENT field in the CHARGE table with this information.
* In the case of a BAN-level Loan/Leasing SOC , BLPREP will create a BAN-level charge and will populate CHG\_CREATION\_DATE in the CHARGE table with NULL value.
* In case of Ban level Loan/leasing Billing will populate BILL\_COMMENT in the CHARGE table with SUBSCRIBER NO and remaining LOAN balance amount in the AmDD defined format for correct printing.

#### ADD

Subscriber-level Loan/Leasing charges will be presented the same way as today in the subscriber summary. Information about the remaining installments will continue to be printed at the end of the subscriber summary.

Printing the remaining balance information in this section is not necessary; the amount can be calculated by multiplying the monthly cost by the number of remaining installments.



BAN-level Loan and Leasing charges will be presented in the Andre avgifter (Other charges) section in the BAN summary.

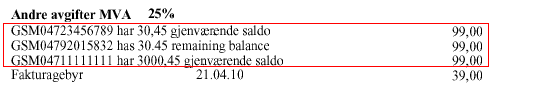
Billing will populate CHARGE.bill\_comment for these charges with the subscriber number and the remaining balance information.

Billing will not populate the CHARGE.chg\_creation\_date, so that there is enough space on the bill to fit a meaningful bill comment.

This will also ensure that the Loan and Leasing charges will not be mixed on the bill with other types of one-time charges.

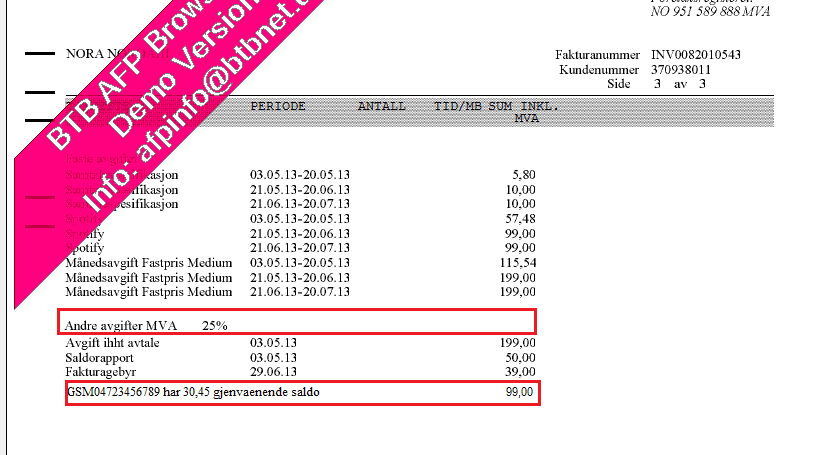
The paper format in English and Norwegian (BAN-level charges section) will be enhanced to fit the description of the new loan and leasing charges, and the description field printmask will be changed from 45 to 80 characters.

Following is an example of how these charges will be presented on the bill; the amounts and text are an example only. NetCom should supply the correct structure of this line during the Impact Assessment stage.



**Example:**

The following example shows how the BAN-level Loan and Leasing charges will appear on the bill. The Description will be fetched from the CHARGE.bill\_comment, which will be populated by billing.



### Impact on Other Applications

All external systems should be enhanced to ensure that, if the subscriber being cancelled has a Loan/Leasing SOC and is the last subscriber under the BAN, then the Cancel Subscriber routine should be called, and not the Cancel BAN routine.

### Collection Assumptions and Constraints

N/A

### Implementation, BPT CR, and Training Notes

N/A

### Telia/Netcom Responsibility

Netcom is responsible to update the SETTLE\_ON\_CANCEL\_IND for the different loan and leasing SOCs.

This field should have the value Y for corporate SOCs and N for private SOCs.

### File and Record Changes

N/A

### Database Structural Changes

#### SOC\_LOAN (Modify):

Add a new column: SETTLE\_ON\_CANCEL

| Field Name | Attribute/Domain | PK/NN/FK | Description |
| --- | --- | --- | --- |
| SETTLE\_ON\_CANCEL | Char(1) | NN | Settle on Cancel Indicator |

#### SERVICE\_AGREEMENT (Modify):

Add a new column: LOAN\_SUB\_ID

| Field Name | Attribute/Domain | PK/NN/FK | Description |
| --- | --- | --- | --- |
| LOAN\_SUB\_ID | NUMBER(9) | NN | This field holds the Subscriber ID of Canceled Subscriber. |

### Test Instruction

#### Price Plan

* Create Equipment/Leasing SOC. The new ‘Settle on Cancel’ fields will be visible and non-mandatory.
* Create or update Loan/Leasing SOCs with some valid values in the new fields.

#### CSM

* Cancel a subscriber having a Loan/Leasing SOC with SETTLE\_ON\_CANCEL\_IND = ‘Y’
* Cancel a subscriber having a Loan/Leasing SOC with SETTLE\_ON\_CANCEL\_IND = ‘N’
* Cancel the last subscriber in the BAN such that subscriber has a Loan/Leasing SOC with SETTLE\_ON\_CANCEL\_IND = ‘N’
* Cancel BAN having BAN-level Loan/Leasing SOCs
* Cancel subscriber on future date such that subscriber has a Loan/Leasing SOC with SETTLE\_ON\_CANCEL\_IND = ‘N’
* Cancel the last subscriber on the BAN with future date such that subscriber has a Loan/Leasing SOC with SETTLE\_ON\_CANCEL\_IND = ‘N’
* Move subscriber having Loan/Leasing SOC such that the Source BAN does not have any other active subscribers.
* Move subscriber having Loan/Leasing SOC such that the Source BAN has other active subscribers.
* Move a suspended subscriber having Loan/Leasing SOC
* Check the Loan/Leasing List at BAN level; all the Loan/Leasing SOCs including the BAN-level one should be shown. New field Source MSISDN will show the Subscriber number from which the Loan SOC has been moved to BAN due to cancelation.
* Activate a new subscriber on a BAN having Loan/Leasing SOCs; default Loan/Leasing SOCs should not be added.
* Settle Loan/Leasing on the BAN level.
* Reverse Settled Loan/Leasing on the BAN level.

#### Billing

* For each CSM testing case run BLPREP process and check the results in CHARGE ,SUBSCRIBER\_LOAN tables.
* Check the BILL COMMENT in the CHARGE table in case of BAN level Loan/Leasing. (The string has to include SUBSCRIBER ID and Loan remaining balance amount.)
* Check the CHG\_CREATION\_DATE in the CHARGE table in case of BAN level Loan/Leasing. It should be NULL

#### ADD

* Run the ADD job that has the BAN’s Loan and Leasing charges.
* Check the AFP files produced by the ADD.
* BAN-level Loan and Leasing charges will be presented in the Andre avgifter (Other charges) section in the BAN summary.
* Subscriber-level Loan/Leasing charges will be presented the same way as today in the subscriber summary

# Technical Changes

## Release Changes Summary

The changes in Release 21.0 are summarized in the following table:

|  |  |
| --- | --- |
| UNIX Executables | **√** |
| PB Executables | **√** |
| Database (GDD) | **√** |
| Third-party Tools | **x** |
| Application Patches | **√** |
| BPT Data | **√** |
| FI Data | **√** |
| OP Data | **√** |

## Third-Party Items

| Item Name | Production Version | New Version | Comments |
| --- | --- | --- | --- |
| C | A.06.16 |  |  |
| C++ | A.06.16 |  |  |
| Jolt | 8.1 (RP 264) |  |  |
| Maestro | 8.2 (patch 1.36.1.7) |  | /opt/maestro82/maestro82 |
| MF Cobol | v5.1 |  | /opt/cobol5.1 |
| Oracle | Oracle 11.2.0.3 |  | /oravl01/oracle/11.2.0.3 |
| Oracle Client | 11.2.0.2 | 11.2.0.3 |  |
| OSS ASN.1 | V8.2 | V8.2 | /opt/ossasn1/hpux-itanium-32bit.tgt/8.6.1 |
| PowerBuilder | 11.5 |  |  |
| QuickSelect | 1.9 |  | /opt/qsel1.9\_32bit |
| SQL Net | Net10.1 10.2.0.3.0 |  |  |
| SyncSort | 3.15 |  | /opt/syncsort3.15 |
| Tuxedo | 11g(10.3) |  | /opt/tuxedo10.3 |
| OS | HP-UX B.11.31 U ia64 |  |  |
| Xerces | 2\_6\_0 |  | /local/xerces-c2\_6\_0\_32b/ |
| XML-Xalan | 1\_9\_0 |  | /local/xml-xalan-c1\_9\_0\_32b |

**GNU/Public Domain SW**

| Item Name | Production Version | New Version | Comments |
| --- | --- | --- | --- |
| tcsh | 6.14.00 (Astron) |  |  |
| gzip/gunzip | 1.3.3 |  |  |
| gmake | 3.80 |  |  |
| gdiff | 2.7 |  |  |
| gfind | 3.8 |  |  |
| perl | 5.8.8 |  |  |
| emacs | 21.3 |  |  |
| xemacs | 19.13/21.1 |  | /local/bin/xemacs-19.13 |
| flex | 2.5.4 |  | /local/bin/flex2.5.4 |
| Tk | 4.2 |  |  |
| tcl | 8.4 |  |  |
| gtar | 1.14 |  |  |
| less | 416 |  |  |
| Itk | 2.2 |  |  |
| Itcl | 2.2 |  |  |
| ghostview | 1.5 |  |  |
| wish | 4.2 |  |  |

Kernel Parameters change:

N/A

## Amdocs Tools

| Item Name | Production Version | New Version | Comments |
| --- | --- | --- | --- |
| CC | V07 |  |  |
| CC tools | V07 |  |  |
| Online CC manager | EPCC2009 |  |  |
| Operational | 4.1 (Patch #74) |  |  |
| Schapi | 3.0 (Patch #2) |  |  |
| Juliet | 8.5 |  |  |
| Cell Tools | v15\_0U1 (Patches: P2\_D84 and P3\_D85) |  |  |
| Quality Center | 9 |  |  |
| Tester Choice | 4.81 (SP1) |  |  |
| DDC | 10.0.0.1 |  |  |

## Application Components Delivered

**Online (NT)**

| Application | Version | Compile Date |
| --- | --- | --- |
| Application Tables | 21.0 |  |
| CSM | 21.0 |  |
| Dealer | 21.0 |  |
| Inventory Control | 21.0 |  |
| MAF Error Handler | 21.0 |  |
| Number Management | 21.0 |  |
| Operational | 21.0 |  |
| Price Plan | 21.0 |  |
| Reference Tables | 21.0 |  |
| Security Management | 2.1 |  |
| Switch | 21.0 |  |
| Workstation Configuration | 21.0 |  |
| Customer Hierarchy | 3.15 |  |
| PB Infra | 316 |  |
| Amdocs Document Designer (previously known as FBF) GUI | 7.1 |  |
| RBMS GUI | 5 |  |
| Client – Online applications | 21.0 |  |

**Server (UNIX)**

| Physical CC Version | Logical CC Version | Last Build Date |
| --- | --- | --- |
| 21.0 | 21.0 |  |

## Environment Changes

### Changes to Environment Variables

N/A

### Changes to Environment Structure

#### Netcom:

New “**bw\_dat**” and “**bw\_aud**” directories will to be created under “$TLG\_UP\_ROOT/physical/”

### Changes to Environment Configuration Files

#### Netcom

N/A

#### Telia

N/A

## CC Build Instructions

RCS Source Control uses ASLM 8.2(XtraC).

## Changes to Tuxedo

### Changes to Variables

#### Netcom

N/A

#### Telia

The following new variables were added to Tuxedo environment. To be added to .init\_file.

* TLG\_PDF\_SEPERATE 'Y'
* TLG\_BF\_BLANK\_PAGE\_NUMBER 'N'
* BF\_IMAGE `type telia\_giro\_1.bmp | awk '{ print $3 }'`
* Bfpr\_PDF\_IMAGE\_PATH `dirname $BF\_IMAGE`
* setenv BF\_IMAGE\_DIR\_NAME `dirname $BF\_IMAGE’

### Changes to Tuxedo Servers



## Changes to Citrix/INI Files

### Telia

* The latest version of the PDF adobe reader need to be installed on the Telia Citrix Machines, this is needed for the PDF Bill Image CR.
* The Following line should exist or should be added to the csm.ini file.

PDF Path=P:\appdata\fokus

## Database Changes

### Upgrade Database Patches

The following table describes the upgrade patches used for the test environments. PET/PROD environments were upgraded using a separate set of scripts.

Version 21.0 Patches:

| ID | Description | Affected Areas | Comments |
| --- | --- | --- | --- |
| 1 | Patch #1 25/7/13 | App, ref |  |
| 2 | Patch #2 27/8/13 | App |  |
| 3 | Patch #3 12/9/13 | Ref |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

### Data Model Changes



### Disk Structure

N/A

### Disk Space Requirements

N/A

## Data Changes

### Reference Database

The following sections contain embedded documents listing the BPT changes.

#### NetCom Reference Changes (BPTs)



#### Telia Reference Changes (BPTs)



### Application Database

#### Full Init Data Changes

##### Netcom Full Init Data Changes

N/A

##### Telia Full Init Data Changes

N/A

#### NetCom Application Data Patches



#### Telia Application Data Patches



### Security DatabaseN/A

N/A

### Operational Database

#### Netcom Operational Database



#### Telia Operational Database



### Domain Changes

| Attribute Name | Attribute Type and Length | Attribute Description | Constraints/ Valid Values | Read-only (Y/N) | Mandatory (Y/N) | Add/Deleted/ Updated |
| --- | --- | --- | --- | --- | --- | --- |
| SHCNTRCD | Char (2) |  | None |  |  | Add |
| ARCL-COLFEE-CRD-INV |  |  | ARCRIN |  |  | Add |
| ARCL-COLFEE-CRD-REP |  |  | ARCLRP |  |  | Add |
| ARCL-COLFEE-PYM-REP |  |  | ARCLPY |  |  | Add |
| CRD-COL-ONLY-INV |  |  | CRCLFE |  |  | Add |
|  |  |  |  |  |  |  |

## Job Definitions

The following table summarizes all of the operational jobs that are new or changed in this version.

### NetCom Job Details

**CSLOANLEASREP**

| Functionality | | CR1489 |
| --- | --- | --- |
| Request Date | | 28/08/13 |
| Component | | CSM |
| Job Name | | CSLOANLEASREP |
| Script | | csm\_loan\_leasing\_bans\_report |
| Change Type | | New |
| Dependency | |  |
| Distribution | Logical-Name | CSLREP |
| Type |  |
| App Parameters | |  |
| Runtime | | ENDDAY |
| Connect to DB Like Job <job name> | |  |
| DB to connect to… | | APP |
| Description | | LOAN LEAS REPORT |

**CSEXTTCS**

| Functionality | | CR1477 |
| --- | --- | --- |
| Request Date | | 11/09/13 |
| Component | | CSM |
| Job Name | | CSEXTTCS |
| Script | | cs\_exptscid'.sh |
| Change Type | | New |
| Dependency | | N/A |
| Distribution | Logical-Name | Pcs\_exp\_tcsid |
| Type |  |
| App Parameters | |  |
| Runtime | | BYREQ |
| Connect to DB Like Job <job name> | |  |
| DB to connect to… | | APP |
| Description | | EXPORT TSCID |

**CSINSTCS**

| Functionality | | CR1477 |
| --- | --- | --- |
| Request Date | | 11/09/13 |
| Component | | CSM |
| Job Name | | CSINSTCS |
| Script | | cs\_intscid'.sh |
| Change Type | | New |
| Dependency | | N/A |
| Distribution | Logical-Name | Pcs\_ins\_tcsid |
| Type |  |
| App Parameters | |  |
| Runtime | | BYREQ |
| Connect to DB Like Job <job name> | |  |
| DB to connect to… | | APP |
| Description | | IMPORT TSCID |

### Telia Job Details

**ARCLCRDINV**

| Functionality | | CR1480 |
| --- | --- | --- |
| Request Date | | 11/09/13 |
| Component | | AR |
| Job Name | | ARCLCRDINV |
| Script | | arcl\_colfeecrd\_Sh |
| Change Type | | New |
| Dependency | | ARCLEVAL |
| Distribution | Logical-Name | clcrd |
| Type |  |
| App Parameters | |  |
| Runtime | | ENDDAY |
| Connect to DB Like Job <job name> | |  |
| DB to connect to… | | APP |
| Description | | COLFEE CREDITS CREATE |

**ARCLCRDREP**

| Functionality | | CR1480 |
| --- | --- | --- |
| Request Date | | 11/09/13 |
| Component | | AR |
| Job Name | | ARCLCRDREP |
| Script | | arcl\_colcrdrep\_Sh |
| Change Type | | New |
| Dependency | | ARCLCRDINV |
| Distribution | Logical-Name | CLCRRP |
| Type |  |
| App Parameters | |  |
| Runtime | | ENDDAY |
| Connect to DB Like Job <job name> | |  |
| DB to connect to… | | APP |
| Description | | COLFEE CREDITS REPORT' |

**ARCLPYINREP**

| Functionality | | CR1480 |
| --- | --- | --- |
| Request Date | | 11/09/13 |
| Component | | AR |
| Job Name | | ARCLPYINREP |
| Script | | arcl\_colpymrep\_Sh |
| Change Type | | New |
| Dependency | |  |
| Distribution | Logical-Name | CLPYRP |
| Type |  |
| App Parameters | |  |
| Runtime | | ENDWEEK |
| Connect to DB Like Job <job name> | |  |
| DB to connect to… | | APP |
| Description | | COLFEE CREDITS PYM REPORT |

## Other Changes

### View Files in Online

N/A

Document Release Information

| Software Version | Editor | Edited Date | Comments | Sent to site | Approved By | Doc V |
| --- | --- | --- | --- | --- | --- | --- |
| 21.0 | Ashraf Abuleil | 22/07/13 | Initial version |  |  | 0.1 |
| 21.0 | Ashraf Abuleil | 16/09/13 | Final Version |  |  | 1.0 |
| 21.0 | Ashraf Abuleil | 02/10/13 | Updated for drop 2 |  |  | 2.0 |