

CONSULT21 BRIEFING

BT wholesale

21CN IPstream (ADSL) Migration: CP Participation in BTW in Infrastructure Proof of Concept (IPoC) Connectivity Trials

Issue 1.0: C21-CT-020

Date: 13th February 2007

IMPORTANT NOTE

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DOCUMENT HISTORY

Issue 1 – 13/02/07	First Issue following discussion at the BB Migration Experts on 31 st January and 13 th February meetings
	It is unlikely that this document will be updated as it represents a time limited opportunity for CP participation in BTW early testing and trialling activity.

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1. Introduction and Overview

At the IMWG (BB Migration Experts) meeting held on the 31st January 2007, BTW presented and discussed with its Communication Provider (CP) customers, its proposed assurance framework for the migration of its existing IPstream ADSL and end user base to 21CN.

The three key principles underlying the assurance framework are:

- Fail Fast - mitigate against failures further down the development and delivery lifecycle by testing critical elements as early as possible
- CP Engagement – based on strong, open relationships to ensure that as the assurance framework is developed CP concerns and feedback is incorporated such that the widest practicable assurance is given ahead of 21CN migration
- CP Participation - proactive and collaborative approach to proving the integrity of the 21CN IPstream, including opportunities for active CP participation ahead of 21CN migration to verify “real life” scenarios.

1.1 Context within BB Migration Experts plan

In accordance with these principles and following discussions with CPs at the BB Migration Experts meeting on 31st January, BTW is extending the scope of its Infrastructure Proof of Concept (IPoC) activity by inviting a small number of CPs to participate. The purpose of CP participation is to support the early validation of end-to-end service connectivity between 21CN and its existing BB infrastructure ahead of later scheduled service trialling activity (FOA1/Friendly User and FOA2/Early Onload activity)

BTW is continuing to develop an updated version of the BB Pilot and Trials Briefing (ref: c21-IM-021) providing CPs with the additional levels of detail discussed between BTW and CPs and identifying all the opportunities for CP participation throughout the framework. However it was simply not possible to complete this work in sufficient time to make this additional new opportunity for participation in the IPoC Connectivity Trial available to CPs.

1.2 Purpose of this briefing

This document outlines an opportunity for CP participation in the IPoC Connectivity Trial and invites CPs to register their interest in order that the necessary arrangements may be made.

1.3 Next Steps including CP actions

1.3.1 Review at BB Migration Experts

The contents of this briefing were reviewed prior to issue at the BB Migration Experts on 13th February 2007 including an opportunity for questions and/or comments.

1.3.2 CP Registration

CPs are invited to consider whether they would be interested in participating in the IPoC Connectivity Trial with BTW. CPs can register their interest by emailing consult21@bt.com with “IPoC Connectivity Trial” in the subject line of the email.

It would be helpful if CPs could indicate the following in their registration:

1. If the CP can/cannot support BTW in this phase of testing and if they can would that be by:
 - Providing directly to BTW a test user account for use by the test robot
 - Giving permission for the use of a BT employee account for testing (subject to availability)
2. CP Lead Contact Name/email address/telephone
3. Any questions of clarification required (so that they can be tackled on the audio on the 19th February (see next section))

CPs are asked to note the minimum requirements for participation and the timescales for the commencement of the IPoC activity (and therefore CP participation in it) when considering registering their interest in participating as outlined in section 2 of this briefing

To support this phase of connectivity testing then please confirm your interest to Liz Walsh (Liz.e.walsh@bt.com). If you are able to provide the additional information requested then that would assist in defining the plan of action.

1.3.3 Follow up audio for registrants

Consult21 has scheduled a follow-up audio for those CPs registering their interest on participation in the IPoC Connectivity Trial. The details of this audio are:

Monday 19th February 2007 @ 9am (max 45 minutes)

Dial in details – 0800 032 1608, pin 504919#

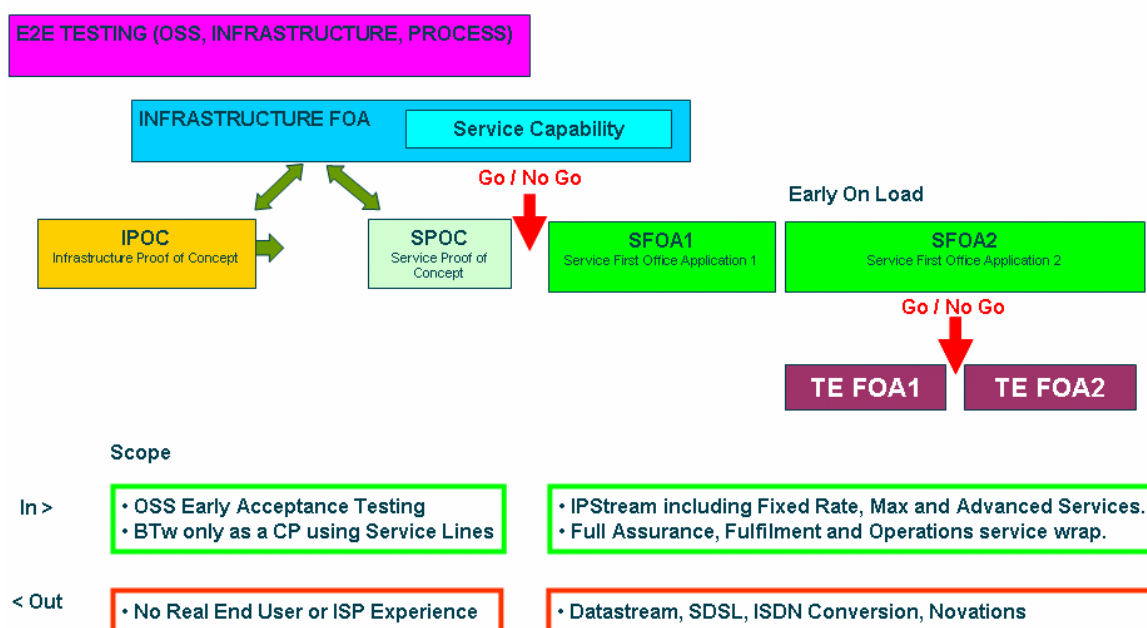
2. IPoC and the Assurance Framework

2.1 Assurance Framework

As outlined on 31st January 2007 at the BB Migration Experts Testing Workshop, BTWs proposed assurance framework for IPstream ADSL migration is illustrated in Figure 1 below. The diagram illustrates the relative phasing of the test and trialling activities leading up to the IPstream service trial and early onload of users. The scope statements refer to the IPoC activity.

Figure 1 – IPstream ADSL – Assurance Framework

21C BB IPStream – Test & Trials Alignment and Scope



2.1.1 Objectives of the Assurance Framework

The objective of the IPstream Assurance Framework is to provide both CPs and BTW sufficient confidence ahead of initial 21CN migration in the key areas of:

- 21CN Service assurance – including the operation of the IPstream ADSL service and associated fulfilment and assurance processes
- Migration process assurance – including operation and impact of transfer engineering processes and migration communications

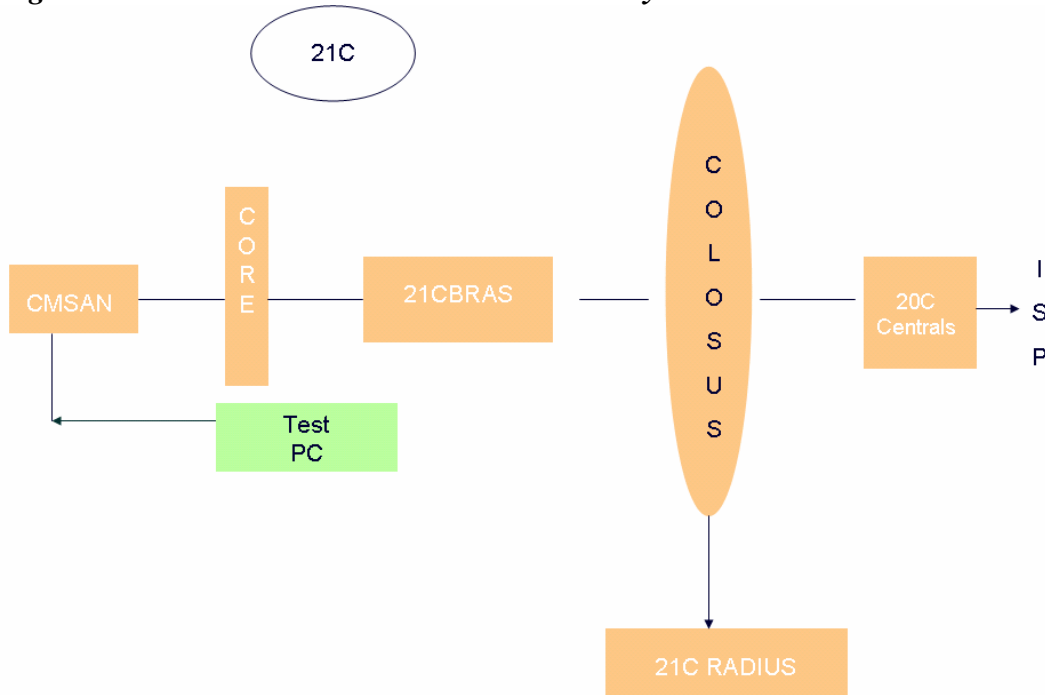
2.2 Infrastructure Proof of Concept (IPoC)

The purpose of this activity is to de-risk the formal infrastructure & service FOA's (Friendly User trials and BB early onload) by building, configuring & operating a basic 21CN IP Stream service to gain early learning and initial views of infrastructure & service capability.

The IPoC build activity occurs prior to the OSS delivery and enables experience to be gained of network configuration, manual capability and live network variables across the CMSAN, BRAS and Radius components.

The IPoC provides the capability for validation of fixed rate service, with connectivity between the 21CN & BTWs existing broadband platforms utilising both PTA and L2TP Central options.

Figure 2 – 21CN IPstream end-2-end connectivity



The diagram above (figure 2) illustrates the connectivity from the DSL test line through to the ISP domain. The fixed rate line speed is configured at the CMSAN and connectivity to the different CP domains is controlled via IPstream LSS functionality.

2.3 IPoC Connectivity Trial

2.3.1 Trial Scope

The IPoC connectivity Trial will address two test scenarios.

- **Connectivity & authentication:**
This test will establish a connection to the CP ISP domain and successfully authenticate the account userid and password.
- **Downloads:**
Having successfully authenticated, the test PC will then link to a standard web test page and verify a basic http download.

2.3.2 Requirement:

In order to complete the IPoC Connectivity Trial and validate end-to-end connectivity across the range of Central Variants, BTW requires the support of a range of CPs.

We require one BB enabled test account, USERID and password to authenticate the connection. Please note in some cases we may have BTW employees who are willing to enable their USERIDs to be used for the IPoC Connectivity Trial activity and in these cases we will be seeking agreement from the serving CP.

If connectivity issues are experienced between the 21C and the CP domains then we would require support from the CP technical contact to work with the BTW technical lead in identifying the location and nature of the problem.

The testing is limited to a single test line and as such has minimal performance or volume impacts.

2.3.3 CP Selection Criteria

Ideally BTW is looking to validate each of the connectivity scenarios and in circumstances where a large number of CPs register to participate, BTW will make its selection on this basis.

2.3.4 Test Results publication

BTW will publish through the 21CN Testing database (which can be found at <http://21cntestingdb.bt.com>) the results of the IPoC Connectivity Trial and review them with CPs through the BB Migration Experts Forum.

All IPoC Connectivity Trial results will be declared at the level of line rate and central product combinations, however any CP domain specific issues will remain confidential between BTW and the specific CP.

It should be noted that due to the constraints inherent with a proof of concept build this testing is focussed upon qualitative test results only. Quantitative performance measurement and testing is outside of the scope of this activity and will be addressed during the later Infrastructure FOA activity.

2.3.5 Test Schedule

The IPoC Connectivity Trial is planned to take place within a window of two weeks, commencing 26th February 2007.

Each CP test window will be scheduled to take place on one day during that period and the date will be confirmed to the CP contact 3 working days beforehand.

The test robot will repeat the connectivity/download test every 15 minutes over a period of 4-8 hours to provide confidence in the repeatability of the results.

END

For enquires relating to this briefing please contact:

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Liz Walsh (Consult21) on 077 1110 7364