Telecommunications Authority of Trinidad and Tobago

The Current Cost Accounting (CCA) Data Request

For the Long Run Average Incremental Cost (LRAIC) Model

Introduction

1

П	
1	

1

1.1	Overview of the data collection process	2
2	Completing the data request	4
2.1	Overview of spreadsheet contents	4
2.2	General guidance for completing the spreadsheet	6
3	Cover	9
4	Contact details	11
5	Asset categories	13
5.1	Asset lives	14
5.2	Data sources	14
5.3	Named ranges	15
6	FAR extract	17
6.1	Asset number	18
6.2	Asset description	18
6.3	Date of acquisition	18
6.4	Gross book value	19
6.5	Opening net book value	19
6.6	Disposals (HCA)	19
6.7	Depreciation (HCA)	19
6.8	Impairment adjustment (HCA)	19
6.9	Closing net book value	19
6.10	Date of disposal/write-out	20
6.11	Asset impaired in opening balance sheet	20
6.12	Asset impaired in closing balance sheet	20
6.13	Asset category	20
6.14	Concessionaires with very large FARs	20
7	CATV specific data	22

8	Work in Progress	23
9	Statutory accounts	25
9.1	Balance sheet information	25
9.2	Statement of income information	25

Figure 1. Sample version log table	9	
Figure 2. Selecting starting month of reporting year	10	
Figure 3. Table for concessionaires to complete with contact detail information	11	
Figure 4. Asset category table	13	
Figure 5. Balance sheet information requested	25	
Figure 6. Statement of income information requested	26	
Table 1. Overview of the data collection process	3	
Table 2. Data request contents	5	
Table 3. Formatting guide	7	
Table 4. Asset categories requiring asset lives	14	
Table 5. Named ranges	15	
Table 6. Individual asset data required	17	

1 Introduction

In accordance with the Costing Methodology,¹ the Telecommunications Authority of Trinidad and Tobago (the Authority) has developed a top-down long run average incremental cost (LRAIC) model of fixed and mobile networks in Trinidad and Tobago. Concessionaires are required to submit cost information on a current cost accounting (CCA) basis. This data request should be read in conjunction with the "Current Cost Accounting Reference Paper". The CCA Reference Paper² sets out guidelines on the definition of CCA and the underlying principles and has been consulted upon by the Authority with the relevant concessionaires in the market.

As set out in the CCA Reference Paper, concessionaires are required to prepare a CCA study and submit information to the Authority on both their capital and operating costs. The Reference Paper also provides a detailed description of the main steps involved in calculating CCA costs.

Concessionaires are requested to submit information to the Authority within six (6) months of their financial year end. Such information must include Audited Financial Statements. In the event that audited financial statements are not available within this time, concessionaires may submit unaudited statements until the audited statements become available. As part of the CCA study, concessionaires are required to submit information for each of their assets on their fixed asset register (FAR) used for the provision of telecommunications services in Trinidad and Tobago:

- Purchase date and gross book value (GBV) including installation costs;
- Asset price trends since date of purchase; and
- Net book value (NBV).

Concessionaires' information contained in their audited statutory accounts, shall be used to verify the inputs and outputs of the CCA study.

A Microsoft Excel spreadsheet template has been developed which sets out the data required for the current cost accounting (CCA) study as a pro forma. This document provides detailed guidance on the data that concessionaires are required to prepare and submit for the CCA study and how concessionaires should go about preparing such data.

The role of concessionaires is fundamental in ensuring that the model inputs, and ultimately the model results and any regulatory decision based on the results

¹ "The costing methodology for the communications sector", TATT, 29 May 2008

² "The Current Cost Accounting (CCA) Reference Paper", TATT 3/5/3/2, 01 March 2010

thereafter, reflect the operating environment faced by concessionaires in Trinidad and Tobago. Data provided by concessionaires for the purpose of this study shall, in all instances, be treated as highly confidential and will not be made available to other concessionaires.

The rest of this section sets out an overview of the data collection process, the spreadsheet contents and some general guidance for completing the spreadsheet. The document further sets out how each sheet should be completed and therefore follows the structure of the spreadsheet:

- Cover;
- Contact details;
- Asset categories;
- Cable TV network specific assets;
- Fixed asset register extract;
- Work in progress; and
- Information from statutory accounts.

1.1 Overview of the data collection process

The table below summarises the steps in the data collection process.

Table 1. Overview of the data collection process

Stage	Role of the Authority	Role of concessionaire	Timeline
Issue of detailed data request	Issue data request and CCA reference paper that sets out the requirements for the CCA study and reflects the level of data available, the time scale for data collection and the LRAIC model requirements	Seek clarification on any aspect of the data request not fully understood	2 weeks
Submission of CCA input data	Review CCA data as it is submitted Request clarification of data submitted where necessary Provide clarification of data requested as required by operators Assist operators in methodological issues and identifying potential data sources	Submit data as it becomes available and before the deadline for data submission Provide clarification/validation of data requested as required within a reasonable time period	6 weeks
Submission of final version of CCA data		Submit final version of CCA data and full documentation of methodology, sources and results	5 weeks
Data submitted used to calculate CCA inputs and inputted into LRAIC model	Use data to calculate CCA costs and input data into LRAIC model and sense check the outputs	Provide clarification where necessary	5 weeks

The data collection process is an iterative process and it is envisaged that concessionaires will need to work closely with the Authority in order to prepare the requested data. Therefore, if further clarification is required with respect to

the data requested and the data collection process, concessionaires should contact the Authority as queries arise rather than waiting until the final deadline for submissions.

2 Completing the data request

This section sets out:

- An overview of the spreadsheet contents; and
- General guidelines on completing the data request.

2.1 Overview of spreadsheet contents

The spreadsheet contains a number of sheets which require concessionaires to provide data in the cells that are clearly highlighted in yellow (see Section 2.2 for more guidance on the formatting used). Short notes to provide concessionaires with guidance on how to complete the data request are also provided within the spreadsheet. The contents of the spreadsheet and the data requested are summarised in the table below.

Table 2. Data request contents

Sheet name	Description	Information requested from concessionaires
Cover	Version history, spreadsheet description (purpose and contents).	To update the version history table when submitting data to the Authority.
Contact_details	Contact details for the main persons involved in the data collection, should the Authority require clarifications on data submitted.	To provide contact details for relevant staff.
Asset_categori es	List of asset categories relating to the provision of telecommunications services in Trinidad and Tobago. For each asset category there are recommended asset lives, revaluation approaches and data sources. This corresponds with the list in the CCA reference paper.	To specify the data source used for the price index for each asset category.
FAR_extract	Extract from the fixed asset register for all assets.	For all relevant assets, to enter information on the asset number, asset description, date of acquisition, total GBV, total closing NBV whether and when the asset has been written off or disposed of and whether the asset value in the opening and closing balance sheets reflect impairment. Where the assets have been impaired, details of the opening NBV, depreciation, disposal and impairment charges should be included. To specify the asset category
		that each asset falls under. To allow reconciliation with the statutory accounts, information on stranded and/or fully depreciated assets need to be provided separately. These assets will not be considered in the CCA valuation.

CATV_specific _data	Further details on transmission infrastructure assets and ducts installed in cable TV networks	Concessionaires operating cable TV networks are requested to provide further details on the type and location of
		transmission assets and ducts
Work_in_progr ess	Details of Work in Progress (WIP) at the opening and closing of the reporting year	Concessionaires are requested to enter information on work in progress (WIP) included in their balance sheets
Statutory_acco unts	Balance sheet and statement of income information from statutory accounts.	Concessionaires are requested to enter data from their audited accounts and on the assets excluded from the CCA study.

Source: Frontier Economics

2.2 General guidance for completing the spreadsheet

The spreadsheet has been developed so that it can be used by all concessionaires participating in the LRAIC modelling process. This means that it contains asset categories which may not be applicable to **all** concessionaires. Concessionaires are required to only provide data for the asset categories which are relevant to them.

A guide to the formatting used in the spreadsheet and the named ranges and cell references is set out below.

2.2.1 Formatting guide

To assist concessionaires in providing the data required, the spreadsheet has been colour coded and annotated. The table below sets out a guide to the formatting used.

Table 3. Formatting guide

Formatting type	Example	Description
Input cells	120	Concessionaires are requested to enter data in these cells
Calculation cells	1,932	Cell values calculated by the spreadsheet - these cells should not be altered by concessionaires
Help cells	Type description of asset	Instructions and guidance notes for concessionaires

Source: Frontier Economics

2.2.2 Named ranges and cell references

The spreadsheet uses a number of named ranges and cells are linked using formula. This means that it is important that data is entered where highlighted and that any changes made to the structure of the spreadsheet (such as inserting or deleting rows, columns and cells) should be done with minimally and only where absolutely necessary.

A number of spare rows have been built into the spreadsheet if concessionaires can objectively justify further disaggregation of asset categories (see Section 5).

2.2.3 Time period for data submission

The first request for data was made in the year 2010 and concessionaires were required to submit data for the reporting year that ended in the calendar year 2009. For example,

- concessionaires with April to March financial reporting years were required to submit data for the period April 2008 to March 2009 and
- for concessionaires with January to December reporting years, information was submitted for the period January 2009 to December 2009.

In this regard, upon annual request of the data by the Authority, concessionaires are required to provide information for the reporting period that ended in the calendar year previous from the year in which the request is being made.

All financial data, service volumes and operational data should be for the same period. For example, subscriber numbers should reflect the average number for the reporting year.

Only for a small subset of data, historic information is also required (e.g. share of labour cost and price indices in the CCA data request template). Where historic information is required, this is stated explicitly in the relevant part of the data templates.

3 Cover

The "Cover" sheet of the spreadsheet provides general information about the contents of the spreadsheet and the data required from concessionaires.

The first table on this sheet is a version log. As described in Section 1, the data submission process will be an iterative process. Therefore, concessionaires are requested to enter in brief details of how versions of the data submitted vary from previous versions submitted. This will also help concessionaires to manage the data collection process internally.

Figure 1. Sample version log table

Date	User	Action
15-Feb-10	Jayanthi Batchelor, Frontier Economics	Spreadsheet developed to prepare formal data request
01-Mar-10	Jo Bloggs, Concessioniare X	Labour costs added

The remaining tables in this sheet set out:

- the spreadsheet purpose;
- spreadsheet contents (as set out in Table 2 above); and
- formatting guide (as set out in Table 3 above);

These tables do not require any input from concessionaires.

The table at the bottom of this sheet sets out the time period covered (this is used for labelling in other parts of the spreadsheet). Concessionaires are requested to enter the month in which their statutory reports start, from the drop-down menu (see the figure below) and to type in the year of the last financial reporting year.

Figure 2. Selecting starting month of reporting year



Source: Frontier Economics

4 Contact details

As the CCA study will be an iterative process, the Authority requires contact details for key personnel should additional clarification on the data submitted be required. Concessionaires should provide details (name, role, e-mail address and phone number) for a main point of contact in the "Contact details" sheet. Concessionaires should provide contact details for the persons responsible for collecting financial and technical network information where such persons are different from the main point of contact.

Figure 3. Table for concessionaires to complete with contact detail information

Main point of contact	
	Plane to the Control of the Control
Information required	Please type in yellow cells
Name	[First name] [Surname]
Concessionaire name	[Concessionaire X]
Role	[Job title/ description]
E-mail address	[e-mail address]
Phone number	[phone number]

5 Asset categories

The "Asset categories" sheet contains the list of asset categories used in the calculations, asset lives, required revaluation approach and data sources for equipment price indices. In accordance with the CCA Reference Paper, assets are split into four high level groups:

- mobile network components;
- fixed network components;
- network infrastructure assets; and
- non-network (support) assets.

These correspond with the four tables in this worksheet. These categories are then further broken into specific asset categories in accordance with the CCA Reference Paper. There are a number of spare lines provided if concessionaires are able to objectively justify further disaggregation of asset categories. Should concessionaires wish to add asset categories, written justification should be provided to the Authority.

As described in Section 2.2, the spreadsheet has been designed so that it can be used by all concessionaires participating in the LRAIC modelling process. This means that there are a number of asset categories which will not be relevant to all concessionaires (in other words, not every concessionaire will have assets that fall under every assset category). Concessioniares are therefore only required to provide data for the asset categories that are relevant to them.

For each relevant asset category, the tables in the worksheet set out the asset life (in years and in months) and the revaluation method required by the Authority. The tables also detail the required data source for the revaluation indices. These tables correspond to the Authority requirements as set out in the CCA reference paper

Figure 4. Asset category table

	Asset category		Asset life -	Asset life -	Revaluation	Data source required for	
Asset Category number	description	Notes	years	months	approach	revaluation	Data source used for revaluation
						AUS TPI/ publicly available	
ACM001	Example	Example	10	120	Indexation	LRIC models	
						AUS TPI/ publicly available	
ACM002	Base station (BTS)	Include transceivers	10	120	Indexation	LRIC models	

5.1 Asset lives

As described above, the tables contain the asset lives for each asset category as recommended by the Authority in the CCA Reference Paper. For certain asset categories, the asset lives will depend on the specific characteristics of concessionaires. In particular, the asset lives will depend on whether these assets are purchased on a leasehold or freehold basis. Therefore, concessionaires are requested to enter asset lives (in months) for the assets categories set out in **Table 4** below.

Table 4. Asset categories requiring asset lives

Asset category number	Asset category name	Recommended asset life
ACI008	Network buildings	40 (freehold); or unexpired portion of lease at time of purchase
ACI010	Network land	Infinite (freehold); or unexpired portion of lease at time of purchase
ACN001	Non-network buildings	40 (freehold); or unexpired portion of lease at time of purchase
ACN002	Land - non network	Infinite (freehold); or unexpired portion of lease at time of purchase

Source: CCA Reference Paper

5.2 Data sources

The data sources identified in the tables consist of:

- publicly available indices used for regulatory purposes;
- the Central Statistics Office (CSO);
- the AUS Telephone Plant Index (AUS TPI); and
- the concessionaires' own data from their FARs (where HCA proxy required).

Alternative sources may be used where objective justification can be provided in writing.

Examples of publicly available sources may include the LRIC models and documentation developed for Sweden³, the UK⁴, Denmark⁵ and Norway⁶. Documentation also exists for Jamaica and the Eastern Caribbean which may also provide some information.

The AUS TPIs (formerly known as Turner Indices) are cost indices publicly available on a subscription basis. Based on geographic proximity the Authority proposes to use the 'South Atlantic' index.

Concessionaires are requested to enter in the tables, the data source selected for revaluation for the asset categories relevant to them. Where the data source differs from the source stated in the CCA Reference Paper, concessionaires should provide written objective justification to the Authority.

5.3 Named ranges

The "Asset categories" sheet contains a number of named ranges which feed into the labelling and the calculation of other sheets in the spreadsheet. These are set out in the table below.

Table 5. Named ranges

Named range	Description
ACM_name	List of asset category names for mobile network assets
ACM_number	List of asset category numbers for mobile network assets
ACF_name	List of asset category names for fixed network assets
ACF_number	List of asset category numbers for fixed network assets
ACI_name	List of asset category names for network infrastructure assets
ACI_number	List of asset category numbers for network infrastructure assets
ACN_name	List of asset category names for non-network assets

Available at: http://www.pts.se/upload/Beslut/Telefoni/2009/hybrid-model-documentation-v7-1-091126.pdf

Available at: http://www.btplc.com/Thegroup/RegulatoryandPublicaffairs/Financialstatements/2009/index.ht m

Available at: http://en.itst.dk/interconnection-and-consumer-protection/lraic

Available at:
http://www.npt.no/portal/page/portal/PG_NPT_NO_EN/PAG_NPT_EN_HOME/PAG_MAIN_TEXT?p_d_i=-121&p_d_c=&p_d_v=109119

ACN_number

List of asset category numbers for non-network assets.

The asset category tables contain a number of spare rows therefore, concessionaires should not need to change the named ranges or to insert additional rows.

6 FAR extract

For each individual asset used in the provision of telecommunications services in Trinidad and Tobago, concessionaires are required to provide data from the fixed asset register (FAR) as set out in the table below.

Table 6. Individual asset data required

Data	Description				
Asset number	The asset number as used in the FAR				
Asset description	A short text description of the asset (typically drawn from the FAR)				
Date of acquisition	The month and year of the acquisition of the asset				
Gross book value	The acquisition cost including installation costs in TT\$				
Opening net book value (NBV)	For impaired assets enter opening NBV including installation costs and import duties (in TT\$).				
Disposals (HCA)	For impaired assets enter any disposals during year (in TT\$) as a negative number.				
Depreciation (HCA)	For impaired assets enter depreciation during year (in TT\$) as a negative number.				
Impairment adjustment (HCA)	For impaired assets enter any impairment adjustment during year (in TT\$) as a negative number.				
Closing net book value	The net book value including installation costs in TT\$ at the end of the reporting year				
Date of write out/disposal	If an asset has been written out or disposed of before the end of its asset life, the month and year in which this is done				
Asset impaired in opening balance sheet	Does the value of assets in the opening balance sheet reflect any impairment adjustments (TRUE or FALSE)?				
Asset impaired in closing balance sheet	Does the value of assets in the closing balance sheet reflect any impairment adjustments (TRUE or FALSE)?				

Source: Frontier Economics

Concessionaires are requested to also provide data in this sheet for assets that do not relate to the provision of telecommunications services in Trinidad and Tobago. This will be used to cross-check the CCA study inputs and outputs against the statutory accounts. The CCA Reference Paper states that all costs that contravene the principles outlined in the Costing Methodology will be

excluded from the LRAIC model. For example, all stranded or fully depreciated assets need to be excluded from the CCA valuation analysis. However, concessionaires will be required to provide data on any costs exclusions, on an HCA basis, as part of the reconciliation with the statutory accounts.

Concessionaires will not be required to provide revaluation data (such as price indices and labour cost information requested on subsequent sheets). In addition, costs that do not relate to the provision of telecommunications services in Trinidad and Tobago should be excluded (such as assets used in retail activities or for overseas operations only). In general, these assets can be easily identified since they do not fall within the asset categories identified in the CCA Reference Paper (and replicated in the "Asset categories" sheet of the data template).

Assets which do not fall under the asset categories set out in the CCA Reference Paper should be excluded from the study unless concessionaires can provide an objective rationale for their inclusion. This would typically require an additional asset category in the "Asset category" sheet (see Section 5).

6.1 Asset number

Concessionaires are requested to enter the asset number corresponding to that used in their FAR in the "Asset number" column. The purpose of this is to assist concessionaires in the preparation of data and to ensure that all relevant assets are included in the study.

6.2 Asset description

Concessionaires are requested to enter a short description of each individual asset in the "Asset description" column. This can be taken directly from the FAR if the description used there is sufficiently clear. This will allow both concessionaires and the Authority to ensure that individual assets have been appropriately categorised and included in the CCA study.

6.3 Date of acquisition

Concessionaires are requested to enter the month and year that each asset was purchased (in the MMM-YY format, for example, "Jan-03") in the "Date of acquisition" column. This information will be used to look up the value of the price index in the "Price indices" sheet (see Section Error! Reference source not found.). Therefore, it is important that dates are entered in the correct format.

6.4 Gross book value

Concessionaires are requested to add the total cost of each asset (purchase price plus installation costs) in the "Gross book value" column. Book values should be recorded in TT\$ and should include import duties and installation costs.

6.5 Opening net book value

For assets which have been impaired prior to the beginning of the year concessionaires are requested to add the total net book value of each asset at the end of the reporting period (purchase price plus installation costs less accumulated depreciation) in the "Opening net book value" column. Book values should be recorded in TT\$.

6.6 Disposals (HCA)

For assets which have been impaired prior to the beginning of the year concessionaires are requested to input any charges on disposal of the asset during the year in the "Disposals" column, based on the impaired value as in the statutory accounts. Charges should be recorded in TT\$ as a negative number.

6.7 Depreciation (HCA)

For assets which have been impaired prior to the beginning of the year concessionaires are requested to input the depreciation charges for the asset during the year in the "Depreciation" column, based on the impaired value as in the statutory accounts. Charges should be recorded in TT\$ as a negative number.

6.8 Impairment adjustment (HCA)

For assets which have been impaired prior to the beginning of the year concessionaires are requested to input the further impairment charges for the asset during the year in the "Impairment Adjustment" column. Charges should be recorded in TT\$ as a negative number.

6.9 Closing net book value

Concessionaires are requested to add the total net book value of each asset at the end of the reporting period (purchase price plus installation costs less

accumulated depreciation) in the "Closing net book value" column. Book values should be recorded in TT\$.

6.10 Date of disposal/write-out

If the asset has been disposed of or written out, concessionaires are requested to enter the date of disposal/write-out. Again, this should be does in the MMM-YY format (for example, "Jan-03"). For assets that have not been disposed of or written out, concessionaires should enter "NA" in this column.

6.11 Asset impaired in opening balance sheet

Is an impairment adjustment applied to the asset prior to the opening of the year, so that the opening balance sheet reflects this impaired value?

6.12 Asset impaired in closing balance sheet

Is an impairment adjustment applied to the asset prior to the opening of the year, or in the closing balance sheet so that the closing balance sheet reflects this impaired value?

6.13 Asset category

Concessionaires are requested to enter the name of the asset category to which the asset belongs. This should be consistent with the list of asset categories defined in the CCA Reference Paper and set out in the "Asset categories" sheet of this workbook (see Section 5).

The workbook automatically enters the corresponding asset number. If the asset number returns an error message ("#N/A"), this is because the asset category name has not been correctly entered (for example, the asset category name has been incorrectly spelt or the asset category is not on the list of asset categories defined in the "Asset categories" sheet).

6.14 Concessionaires with very large FARs

The sheet contains 300 rows, allowing concessionaires to enter up to 300 different assets. Should concessionaires require further rows, these can be copied and pasted at the bottom of the table.

Concessionaires with very large FAR may find it easier to carry out preprocessing of their data before entering it into the data request template. This pre-processing would need to identify the GBV of assets in each relevant asset category for each year in which assets were acquired.

If this is the case, concessionaires will need to provide the Authority with details of the pre-processing work carried out so that this can be verified.

If pre-processed data is entered in this sheet, concessionaires will not need to enter details of the asset number and asset description. The date of acquisition should be set to a year average. For example, if the statutory financial reporting period runs from January to January, the date of acquisition should be set to June of the year in which all the assets were acquired.

Where the asset category includes assets that are written off or disposed of, these will need to be separately identified so that they can be taken account of accordingly within the spreadsheet calculations.

7 CATV specific data

This sheet only relates to concessionaires operating cable TV networks. The relevant concessionaires are requested to provide further details on the transmission infrastructure assets installed in their network, both in terms of types of assets and where these assets are installed.

The relevant concessionaires are further requested to provide information on the duct assets – in particular, the relevant share of ducts relating to the core and access network.

8 Work in Progress

Work in progress (WIP) relating to assets in the course of construction will need to be funded and as such should be included in the concessionaire's asset base for the purpose of estimating the mean capital employed and hence the cost of capital. Any work in progress related to goods for resale should not be included here but should be included separately within current assets.

Concessionaires are requested to input the total level of Work in Progress included on the balance sheet at the opening and closing of the relevant financial year. Where the concessionaire has information that enables the estimation of the allocation of the work in progress between the defined asset categories, the sheet allows for this information to be included.

9 Statutory accounts

Where available, concessionaires are requested to provide data from their audited accounts (balance sheet and statement of income) on a disaggregated basis, as much as possible, in the "Statutory_accounts" sheet.

9.1 Balance sheet information

Under the "Balance sheet" heading, concessionaires are requested to provide the information on non-current and current assets. The figure below provides an extract from the data template and the level of disaggregation that would be ideal. The sub-totals and total are automatically calculated within the sheet.

Figure 5. Balance sheet information requested

May-11	May-12	May-13	May-14
0	0	0	0
0	0	0	0
0	ما	0	0
	0	0 0	

9.2 Statement of income information

Under the "Statement of income" heading, concessionaires are requested to provide the information on their cost of sales and operating expenses. The figure below provides an extract from the data template and the level of disaggregation that would be ideal. The totals are automatically calculated within the sheet.

Figure 6. Statement of income information requested

	Year ending				
	May-10	May-11	May-12	May-13	May-14
Cost of sales					
Operating expenses		•	•	•	
Personnel					
Re-organisation costs					
Maintenance and repairs					
Other					
Depreciation	0	0	0	0	0
Charge for the year					
Disposals and adjustments					
Impairment of property, plant and equipment					