Crossrail Central Operating Section Network Statement

2025



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Glossary of Terms

A number of terms, abbreviations and expressions are used in this Network Statement, which are defined below.

Term	Definition
Access Contract	Agreement between RfL(I) and an Applicant for the allocation of capacity on the CCOS for duration of up to and including a single Timetable Period
Act	Railways Act 1993
Applicant	Any person that wants to apply for a Train Path including Railway Undertakings and combined transport operators applying on behalf of a Railway Undertaking
Access Proposal	Any notification made by any Applicant for a Train Slot as provided under the CCOS Network Code
AWS	Automatic Warning System
CBTC	Communications Based Train Control
CCOS	Crossrail Central Operating Section rail infrastructure to which this Network Statement relates
CCOS Access Dispute Resolution Rules or CCOS ADRR	The rules for the resolution of access disputes on the CCOS, as appended to the CCOS Network Code
CCOS Codes	The CCOS Network Code, the CCOS Emergency Access Code, the CCOS Railway Operational Code, the CCOS Performance Data Accuracy Code and the CCOS Systems Code
CCOS Engineering Access Statement	The CCOS Engineering Access Statement sets out the Possessions requirements of RfL(I) in order to carry out inspections, maintenance, repair, renewal and enhancement works on the CCOS
CCOS Network Code	The CCOS Network Code as updated from time to time
CCOS Rule Book	The CCOS Rule Book as updated from time to time
CCOS Sectional Appendix	The CCOS Sectional Appendix as updated from time to time

Term	Definition
CCOS Standards	Railway Group Standards published by the Railway Safety and Standards Board (RSSB)
CCOS Timetable Planning Rules	The CCOS Timetable Planning Rules containing operating procedures and a procedure to enable amendments to be made to the CCOS Engineering Access Statement other than through the annual consultation process set out in Condition D2 of Part D of the CCOS Network Code
CDIC	Costs Directly Incurred Charge
Class 345	Alstom Aventra Model LV-BXR-13
Connaught Tunnel	That tunnelled section of the CCOS between Royal Victoria Dock and Royal Albert Dock
Contingent Right	A right under a Track Access Contract which is not a Firm Right, and which is subject to the fulfilment of all competing Firm Rights which have been exercised, together with any additional contingency specified in the Track Access Contract
Elizabeth Line Train Operating Concession	Agreement between RfL and the ELTOC for the provision of specified railway passenger services for a period
Disruptive Event	Any event or circumstance which materially prevents or materially disrupts the operation of trains on any part of the CCOS in accordance with the relevant Working Timetable
DLR	Docklands Light Railway
ELTOC	The operator of the Elizabeth Line Train Operating Concession from time to time which, as at the date of this Network Statement, is MTR Corporation (Crossrail) Limited
ELTOC Station	Abbey Wood Station
ETCS	European Train Control System
FCC	Fixed Cost Charge
Firm Right	A right:
	(a) under a Track Access Contract in respect of the quantum, timing or any other

Term	Definition
	characteristic of a train movement; or
	(b) of RfL(I) under the CCOS Engineering Access Statement and the CCOS Timetable Planning Rules,
	and which in either such case is not expressed to be subject to any contingency outside the control of the right holder (save in the case of (a), the right may be subject to the CCOS Engineering Access Statement and the CCOS Timetable Planning Rules)
Framework Track Access Contract	Agreement between RfL(I) and an Applicant for the allocation of capacity on the CCOS for a duration of more than one Timetable Period
GSM-R	Global system for mobile telecommunications - railway
IRC	Investment Recovery Charge
Infrastructure Manager	A body or undertaking that is responsible in particular for:
	(a) the establishment, management and maintenance of railway infrastructure, including traffic management and control-command and signalling; and
	(b) the provision with respect to that infrastructure of Network Services,
	but, notwithstanding that some or all of the functions of the infrastructure manager on a network or part of a network may be allocated to different bodies or undertakings, the obligations in respect of those functions remain with the infrastructure manager, except where the functions and obligations pass to an allocation or charging body
Licensing Regulations	The Railways (Licensing of Railway Undertakings) Regulations 2005 as amended including by the Rail Regulations 2016, The Railways (Access, Management and Licensing of Railway Undertakings) (Amendment) Regulations 2019 and the Railways (Access, Management and Licensing of Railway Undertakings) (Amendments etc.) (EU Exit) Regulations 2019

Term	Definition
LUL	London Underground Limited
LUL Stations	Bond Street Station, Tottenham Court Road Station, Farringdon Station, Liverpool Street Station and Whitechapel Station
NTSN	National Technical Specification Notice
Network Services	Railway services other than the carriage of passengers and goods, light maintenance of rolling stock and station services. Essentially the operation maintenance and renewal of the CCOS infrastructure
New Working Timetable	The version of the Working Timetable which is formally offered to Applicants 26 weeks prior to coming into effect, and after the resolution of any disputes
NR	Network Rail Infrastructure Limited – also referred to as Network Rail
NR Network	The railway operated by NR
Old Oak Common Depot	The maintenance depot located at Old Oak Common, London
OMR	Operations, Maintenance and Renewal
ORR	Office of Rail and Road
OSS	One Stop Shop
Possession	Restriction of use of railway infrastructure assets
Principal Change Date	The date normally falling on the Sunday next following the second Saturday in December in any calendar year
Rail Regulations 2016	The Railways (Access, Management and Licensing of Railway Undertakings) Regulations 2016 as amended including by The Railways (Access, Management and Licensing of Railway Undertakings) (Amendment) Regulations 2019 and the Railways (Access, Management and Licensing of Railway Undertakings) (Amendments etc.) (EU Exit) Regulations 2019
Railway Undertaking	Any public or private undertaking, licensed in accordance with the Licensing Regulations (or exempt from licensing), the principal business of which is to provide services for the transport of

Term	Definition
	goods and/or passengers by rail with a requirement that the undertaking must ensure traction; this also includes undertakings which provide traction only
RCC	Romford Route Control Centre
Relevant Legislation	(a) the Licensing Regulations;
	(b) the Rail Regulations 2016;
	(c) the ROGS Regulations;
	(d) The Railways (Interoperability) Regulations 2011;
	(e) The Railways (Access to Training Services) Regulations 2006;
	(f) The Train Driving Licences and Certificates Regulations 2010;
	(g) the Act; and
	(h) the Railways Act 2005,
	each as amended from time to time
RfL	Rail for London Limited, a wholly owned subsidiary of TfL, responsible for letting the Elizabeth Line Train Operating Concession
RfL(I)	Rail for London (Infrastructure) Limited, a wholly owned subsidiary of TfL, the Infrastructure Manager of the CCOS
RfL Station Access Conditions	RfL Station Access Conditions and the annex in relation to the ELTOC Station as each are modified from time to time
RfL(I) Station Access Conditions	RfL(I) Station Access Conditions and the annexes in relation to the relevant RfL(I) Station as each are modified in respect of the relevant RfL(I) Station from time to time
RfL(I) Stations	Paddington (CCOS) Station; Canary Wharf Station; Custom House Station; and Woolwich Station
RNE	RailNetEurope, an association of European infrastructure managers
ROGS Regulations	The Railways and Other Guided Transport (Safety)

Term	Definition
	Regulations 2006 as amended including by the:
	(a) Railways and Other Guided Transport Systems (Safety) (Amendment) Regulations 2013; and
	(b) The Railways and Other Guided Transport Systems (Safety) (Amendment) Regulations 2015
Rolling Stock	Wheeled vehicles capable of movement on a railway, whether self-propelled or not
Secretary of State	Secretary of State for Transport
SNRP	Statement of National Regulatory Provisions
Sponsors	TfL and the Department for Transport
Stations	The RfL(I) Stations, the CTOC Station and the LUL Stations
Station Access Agreement	Agreement between:
	(a) RfL(I) and an Applicant for access to the relevant RfL(I) Station
	(b) the ELTOC and an Applicant for access to the ELTOC Station
Station Usage Agreement	Agreement between LUL and an Applicant for access to the relevant LUL Station
Subsidiary Change Date	The date normally falling on the Sunday next following the second Saturday in May in any calendar year
TfL	Transport for London
Timetable Period	The period of operation of the relevant Working Timetable
TPWS	Train Protection and Warning System
Track Access Contract	(a) a Framework Track Access Contract; or
	(b) an Access Contract
Train Operator Variation	Any formal request made to change, delete or add to the Train Slots shown in the Working Timetable
Train Path	The infrastructure capacity needed to run a train

Term	Definition
	between two places over a given time period
Train Slot	A train movement or a series of train movements, identified by arrival and departure times at each of the start, intermediate (where appropriate) and end points of each train movement
Working Timetable	The timetable for the train services on the CCOS established in accordance with Part D of the CCOS Network Code for the relevant Timetable Period

1 General Information

1.1 Introduction

The CCOS infrastructure consists of tunnel, track and associated infrastructure. The track connects Westbourne Park Junction in the west of London to Pudding Mill Lane Junction in the north east of London and Abbey Wood Station in the south east of London.

RfL(I) is the infrastructure manager of the CCOS under the Act, for the purposes of the ROGS Regulations and under the Rail Regulations 2016 and has issued this Network Statement for the CCOS.

There are ten stations served by the CCOS infrastructure:

- *RfL(I) Stations*: Paddington (CCOS) Station; Canary Wharf Station; Custom House Station and Woolwich Station are owned by RfL(I) who is the facility owner. The ELTOC operates the RfL(I) Stations on a day-to-day basis pursuant to an operator agreement with RfL(I).
- LUL Stations: Bond Street, Tottenham Court Road, Farringdon, Liverpool Street and Whitechapel are owned and operated by LUL (LUL is the facility owner).
- ELTOC Station: Abbey Wood station is owned by NR. A long lease of the station has been granted by NR to RfL and RfL has entered into a sublease of the station with the ELTOC. The station is operated by the ELTOC, who is the facility owner.

1.2 Purpose of the Network Statement

The purpose of the Network Statement is to inform Applicants, the authorities and other interested parties about the CCOS, and the terms and conditions for allocation and use of capacity and services, as well as the related charges.

The Network Statement presents the services that RfL(I) offers, with information regarding where they are accessible, how the allocation of services functions, which charges apply, and the conditions that apply for gaining access to the services.

This Network Statement has been developed pursuant to the requirements of the Rail Regulations 2016.

1.3 Legal Aspects

1.3.1 Legal Framework

The legal framework of the rail industry of Great Britain is primarily governed by the Act, the Railways Act 2005, the Railways and Transport Safety Act 2003 and a range of secondary legislation – including key pieces of secondary legislation such as the Rail

Regulations 2016, the Licensing Regulations and the ROGS Regulations. In relation to the CCOS, the Crossrail Act 2008 is also relevant to the construction, maintenance and operation of the CCOS.

Much of this legal framework has its origins in European rail legislation, which has been adopted into domestic law as assimilated law (as referred to in the Retained EU Law (Revocation and Reform) Act 2023).

RfL(I) intends to operate the CCOS in accordance with all Relevant Legislation.

1.3.2 Legal Status and liability

This Network Statement is intended as a source of information for RfL(I)'s current and potential customers. As such, it is intended to be an informative document only and accordingly it has no contractual force. It is not intended to be an invitation to treat or to be an offer to enter into a contract.

Reasonable efforts have been made to ensure that the information provided in this Network Statement is accurate. RfL(I) does not accept any liability for errors, omissions or inaccuracies regarding information from external parties. No reliance should be placed on any item of information contained within this Network Statement without first verifying with RfL(I) the extent to which it is appropriate to do so. Errors which are notified to RfL(I) will be reviewed and corrected where appropriate in the next issue of the Network Statement.

No responsibility can be accepted for the content of any external website referred to within this Network Statement.

1.3.3 Appeals Procedure

The Network Statement refers to various documents which carry their own appeal procedures. The CCOS Network Code is a set of rules codifying rail industry procedures in relation to the operation of the CCOS and forms part of each Track Access Contract. A party has a right to challenge decisions made by RfL(I) in relation to its functions under Part D of the CCOS Network Code as to timetabling, the CCOS Engineering Access Statement or the CCOS Timetable Planning Rules. Such challenges are heard by the relevant panel established under the CCOS Access Dispute Resolution Rules (which are annexed to the CCOS Network Code).

The CCOS Access Dispute Resolution Rules address disputes such as those above or any others arising out of or in connection with Track Access Contracts. The Access Disputes Committee for the NR Network provides the dispute services for the CCOS.

The Rail Regulations 2016 also provide applicants with rights of appeal. These appeal rights apply if the applicant considers that it has been unfairly treated, discriminated against, or is in any other way aggrieved, and in particular concerning the matters set out in regulation 32(2) of the Rail Regulations 2016. An applicant can appeal against decisions made by RfL(I), a service provider or, as the case may be, a Railway Undertaking. Guidance on how to appeal is included within Chapter 5 of the ORR's guidance on "Access to the rail network and service facilities, infrastructure management and appeals" which can be obtained from the ORR's website: https://www.orr.gov.uk/sites/default/files/2021-07/guidance-on-the-access-2016-regulations.pdf

The right of appeal is to the ORR which has published guidance on its approach in considering such appeals, which can be obtained from the ORR's website: https://www.orr.gov.uk/rail-guidance-compliance/network-access/guidance-policies/track-access-guidance. Where the subject matter of an appeal is such that it could have been dealt with through directions by the ORR under the Act, then that will be deemed the appropriate procedure.

If an applicant for allocation of infrastructure capacity is aggrieved regarding decisions concerning this Network Statement, including the information that has been (or, in an applicant's view, should have been) included in it, there is a right of appeal to the ORR. RfL(I) would invite anyone who has concerns regarding this Network Statement to raise them with RfL(I) (see 1.6.1) in the first instance, so that consideration can be given as to how those concerns may be accommodated.

1.4 Structure of Network Statement

The structure of this Network Statement follows the 'Network Statement Common Structure and Implementation Guide', adopted by European Infrastructure Managers that are members of RailNetEurope (see section 1.7), on the basis of the applicable legal framework. The document is revised when needed and the most recent version is available on the RailNetEurope website (http://www.rne.eu/organisation/network-statements/). The goal of the Common Structure and Implementation Guide is that all Applicants and interested parties can find the same information in the same place in the Network Statement of any participating Infrastructure Manager.

The Network Statement is thus structured in 7 sections constituting the main document and appendixes giving further details:

- Section 1 gives general information about the Network Statement and contacts
- Section 2 describes the main technical and functional characteristics of the railway network
- Section 3 defines the legal requirements and access conditions to the railway network
- Section 4 sets the procedure for the allocation of the train paths
- Section 5 lists the services provided by the Infrastructure Manager as well as the charges for these services. The incentive schemes are described in this section
- Section 6 describes the traffic management procedures, including the procedures to be followed in the event of incidents
- Section 7 provides an overview of the service facilities connected to the Infrastructure Manager's network.

The version of the common structure dated 19th May 2021 has been considered for the purposes of this Network Statement.

1.5 Validity Period, Updating and Publishing

1.5.1 Validity Period

The Rail Regulations 2016 require RfL(I) as an infrastructure manager to publish a Network Statement four months before the deadline for applications for infrastructure capacity (the Priority Date for the relevant timetable). The 2025 Network Statement is for use for capacity requests for the 2025 timetable year (15th December 2024 to 13th December 2025). It should be noted that RfL(I) is not obliged to publish a 2026 Network Statement for the CCOS, valid for capacity requests for the December 2025 timetable, until October 2024.

1.5.2 Updating Process

RfL(I) will update the current Network Statement on its website as may be necessary to include any additional information or reflect significant changes throughout the year.

RfL(I) will consult on an updated version of the Network Statement once a year, usually between August and October. It should be noted that once the Network Statement has been downloaded from the TfL website, it will fall outside any change control process offered by RfL(I).

Many of the documents referred to in this Network Statement (such as the CCOS Network Code, CCOS Engineering Access Statement and CCOS Timetable Planning Rules) are subject to existing change control processes.

1.5.3 Publishing

In order for this Network Statement to be an easy-to-use document, it facilitates access to further information by means of links to websites or contact details, in addition to the information set out within it. The Network Statement is therefore only published in an electronic format.

It will be kept up to date with any changes and RfL(I) will make clear where updating has taken place (by way of version control).

This Network Statement can be downloaded free, from RfL(I) section of the Transport for London (TfL) website (https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section).

This Network Statement is written in English is available free of charge in electronic format. It will be kept up to date with any changes, and it will be made clear where updating has taken place (by way of version control).

A copy of this Network Statement in French can also be obtained free of charge by requesting it from RfL(I). Whilst care has been taken to make sure that both the English and French versions of the Network Statement are aligned, in the event of inconsistencies or interpretation difficulties between versions, the English version prevails.

1.6 Contacts

1.6.1 On all issues relating to the CCOS (including comments and suggestions on content of this Network Statement)

Network Performance and Strategy Manager Rail for London (Infrastructure) Limited 5 Endeavour Square Stratford London E20 1JN

Tel: +44 (0) 20 3054 1097

Website: www.tfl.gov.uk/corporate/publications-and-reports/crossrail-central-

operating-section

1.6.2 On issues relating to Old Oak Common Depot:

Managing Director
Alstom Engineering and Services Limited
Litchurch Lane
Derby
DE24 8AD

Tel: +44 (0)1332 344 666

Website: www.alstom.com/alstom-uk-and-ireland

1.6.3 On issues relating to track access on the NR Network (East)

Route Director - Anglia Network Rail Infrastructure Limited 1 Stratford Place Montfichet Road London E20 1EJ

Website: www.networkrail.co.uk

1.6.4 On issues relating to track access on the NR Network (West)

Route Director - Western Network Rail Infrastructure Limited Western House 1 Holbrook Way Swindon SN1 1BD

Website: www.networkrail.co.uk

1.6.5 On issues relating to the NR Operational Planning Production Schedule (timetabling)

Matthew Allen Head of Timetable Production Network Rail Infrastructure Limited The Quadrant:MK Milton Keynes MK9 1EN

Tel: +44 (0)7734 282 514

Email: Matthew.Allen@networkrail.co.uk

Website: www.networkrail.co.uk

1.6.6 On issues related to the RfL(I) Stations

Network Performance and Strategy Manager Rail for London (Infrastructure) Limited 5 Endeavour Square Stratford London E20 1JN

Tel: +44 (0) 20 3054 1097

Website: www.tfl.gov.uk/corporate/publications-and-reports/crossrail-central-

operating-section

1.6.7 On issues relating to LUL Stations

Managing Director
London Underground Limited
5 Endeavour Square
Stratford
London
E20 1JN

1.6.8 On issues relating to the ELTOC Station

Head of Stations and Revenue Protection MTR Crossrail (Corporation) Limited 63 St Mary Axe London EC3A SNH

1.6.9 On issues relating to Docklands Light Railway

Managing Director
Docklands Light Railway Limited
5 Endeavour Square
Stratford
London
E20 1JN

1.6.10 On issues relating to the Heathrow spur

Rail Regulation Manager Heathrow Airport Limited Compass Centre Nelson Road Middlesex TW6 2GW Email: rail@heathrow.com

Website: https://www.heathrow.com/company/about-heathrow/rail-regulation

1.7 RailNetEurope – Cooperation between European Infrastructure Managers

RailNetEurope (RNE) was set up in 2004 to help meet the challenges faced by the international rail sector. This was to be achieved by providing solutions that benefit all RNE Members as well as their customers and business partners. RNE facilitates the operational international business of its members. RNE's role is also to provide support as regards compliance with the European legal framework. This entails developing harmonised international business processes, templates, handbooks, and guidelines. All in all, RNE's mission is to help its members meet the challenges of the rapidly changing railway sector in Europe and to promote international rail traffic. RfL(I) is not a member of RNE.

You can find more information about RNE on https://rne.eu/organisation/rne-approach-structure/.

2 Infrastructure

2.1 Introduction

2.1.1 The CCOS

CCOS is a high capacity, largely tunnelled urban network that links the NR Network in the east and the NR Network in the west via central London.

It is an electrified railway on which train operations with diesel locomotives are not permitted (due to the limited ventilation system and risk of fire), except under special instructions and arrangements.

RfL(I) is responsible for operating, maintaining, renewing, replacing, improving, enhancing and developing the CCOS.

Under regulation 15(6) of the Rail Regulations 2016 the Secretary of State, after consultation with the Mayor of London has specified outputs required from RfL(I)¹ for the period from commencement of revenue earning railway services on 24th May 2022 to 31st March 2031³². These outputs are consistent with the Sponsors' Requirements for the Crossrail

project: https://depositedpapers.parliament.uk/depositedpaper/2261624/files) and are reflected in the TfL business plan available at https://tfl.gov.uk/corporate/publications-and-reports/business-plan.

The TfL asset management policy is available here http://content.tfl.gov.uk/tfl-asset-management-policy.pdf .

The draft business plan of RfL(I) is available on request to potential Applicants who can demonstrate a credible interest in applying for the allocation of capacity on the CCOS.

2.1.2 Register of Infrastructure (RINF)

NR has the ability to export infrastructure data in line with the EU Register of Infrastructure (RINF) specification as specified in the European Commission Implementing Decision 2019/777 (RINF Decision). The main purpose of RINF specified data is to provide transparency on the characteristics of the network. The information can be used for planning purposes in designing new trains and for assisting with the assessment of compatibility of trains with routes before the start of operation.

Data meeting the RINF specification can be considered for the design processes for rolling stock sub systems, enabling technical compatibility assessment for fixed installations, monitoring interoperability status of the UK railway network and assessing route compatibility for planned trains. It is intended to provide an overview

¹ This is a requirement under the Rail Regulations 2016. Discussions are ongoing with the Department for Transport as to how the Secretary of State will discharge his duties and the role of the Mayor of London therein. It is anticipated that any resulting contract between RfL(I) and the Secretary of State will be informed by the Sponsors' Requirements that set out the required capability and performance of the CCOS infrastructure.

² The Rail Regulations 2016 require that the resulting contract covers a period of not less than five years. It is assumed it will cover the period until the second contractual review of charges (see section 5.2.2).

of general compatibility, though the Railway Undertaking, vehicle manufacturer or other authorised users will need to undertake more detailed assessments prior to a vehicle being cleared to operate on a new route.

For more information about the RINF, please contact:

Asset Information Services

Network Rail

The Quadrant:MK

Elder Gate

Milton Keynes

MK9 1EN

Email: RINFdataenquiries@networkrail.co.uk

2.2 Extent of Network

2.2.1 Limits

The CCOS runs from Westbourne Park Junction (exclusive) to Abbey Wood Sidings (including Plumstead Sidings) and Pudding Mill Lane Junction (exclusive). Please refer to Appendix 4 for a route map of the CCOS.

The infrastructure maintenance depot at Plumstead is not available for normal railway operations and is restricted to Network Services only.

2.2.2 Connected Rail Networks

The CCOS connects to other railway networks at the following locations:

Location	Infrastructure Manager
Westbourne Park Junction Connection Point (Great Western Mainline)	NR
Pudding Mill Lane Junction Connection Point (Great Eastern Mainline)	NR
East of Abbey Wood sidings (North Kent Line) ⁽¹⁾	NR

Notes:

(1) There is a physical single line connection to the east of Abbey Wood sidings. This will not be electrified and access will be gained under controlled (signal protected) arrangements for Network Services only.

2.2.3 Further Information

Further details about the CCOS can be found in the CCOS Sectional Appendix.

2.3 Network Description

2.3.1 Track Typologies

The CCOS is a double-track railway, including connections with the NR Network (with the exception of the connection to the North Kent Line (see section 2.2.2 above)).

Crossovers are provided in the vicinity of the tunnel portals to enable bidirectional working in tunnels. There will also be crossovers at Fisher Street (between Tottenham Court Road and Farringdon stations) and Vallance Road (between Liverpool Street (CCOS) and Whitechapel stations). It will be possible to turn around trains at Custom House and eastbound trains at Westbourne Park.

2.3.2 Track Gauge

The nominal track gauge is 1,435mm.

2.3.3 Stations and Nodes

Appendix 4 contains a CCOS route map including locations of stations.

There are 10 Stations on the CCOS. Please see section 1.1 above for more details on this. Of these stations, Abbey Wood and Custom House are surface stations, the remainder being sub-surface.

Bond Street, Tottenham Court Road, Farringdon, Liverpool Street and Whitechapel are owned and operated by LUL. These stations are outside the scope of the Act and the Rail Regulations 2016.

Distances between stations and other principal nodes, such as junctions, can be derived from the CCOS Sectional Appendix.

The maximum length of train that may be accommodated at a station is stated in section 2.3.8.

All sub-surface stations are equipped with platform screen doors to which passenger train door configurations will need to be aligned.

2.3.4 Loading Gauge

Crossrail specific structure gauges have been developed for the CCOS for the purposes of maintaining the infrastructure and for determining available clearances for rail vehicles.

The Crossrail structure gauges define a space into which structures, temporary or permanent, may not intrude. The gauges do not allow for any construction tolerances for structures. These tolerances need to be considered separately as part of the design of the structures.

The Crossrail structure gauges include for normal clearances to overhead line equipment (OHLE) and pantographs. If structures, other than OHLE equipment, need to occupy this area, guidance shall be sought from RfL(I) at the address set out in section 1.6.1.

The Crossrail structure gauge drawings and a Crossrail structure gauge application map are available from RfL(I).

2.3.5 Weight Limits

The maximum axle load shall not exceed 16.5 tonnes. In the UK, axle weight limits and equivalent distributed vehicle loadings are classified into Route Availability (RA) values between 1 and 10.

The maximum axle load for the CCOS shall be commensurate with an RA 4 rating.

2.3.6 Line Gradients

The maximum line gradient is 1 in 27.

2.3.7 Maximum Line Speeds

Maximum line permissible speeds on the CCOS are as follows:

	All Trains
Route other than Connaught Tunnel	100km/h
Connaught Tunnel	80km/h

There is a 70km/h line speed limit through stations for non-stopping trains.

2.3.8 Maximum Train Lengths

Due to the configuration of signalling system employed on the CCOS the train consist length must be greater than 40 metres and no more than 205m. Applicants considering utilising Rolling Stock with a train length less than 205m should contact RfL(I).

2.3.9 Power Supply

The CCOS will be powered by 25kV 50Hz AC Overhead Line Equipment which is compliant with the Energy NTSN. The contact wire height is generally set at 4.25m in tunnels and 4.7m on open routeway.

The principal characteristics of the power supply system are as follows:

Description	Performance
Nominal voltage	25kV
Maximum voltage (continuous)	27.5kV

Minimum voltage (continuous)	19kV
Nominal frequency	50Hz
Maximum fault current	12kA

Pantographs are to comply with BS EN 50206-1:2010 - Railway applications - Rolling stock - Pantographs Characteristics and tests Part 1: Pantographs for main line vehicles.

The pantograph shall be located no less than 25metres from the front of the train.

The power supply network is capable of receiving regenerated electrical power from trains.

2.3.10 Signalling Systems

The CCOS uses the Siemens Rail Automation "Trainguard MT" Communications Based Train Control ("CBTC") signalling system.

Automatic reversing functionality is incorporated into the signalling at Westbourne Park sidings to assist in the prompt reversal of trains that terminate at Paddington (CCOS) station. Similar functionality is also in place to move trains between Abbey Wood station and Plumstead sidings and to reverse trains using the crossovers at Fisher Street. Vallance Road and at Custom House.

Rolling Stock must be fitted with a CBTC system, compatible with Siemens Trainguard, for operation on the CCOS.

CBTC interfaces with standard lineside signalling at the interfaces with the NR Network at Westbourne Park Junction in the West and between Pudding Mill Lane Junction and Stratford station in the East.

Rolling Stock traversing the interfaces must be able to operate on the move without interruption between the respective signalling systems.

This will require:

between the CCOS and the NR Great Western Mainline ability to operate 1 without interruption between CBTC and TPWS/AWS (future planned migration to ETCS level 2³); and

2 between the CCOS and the NR Great Eastern Mainline ability to operate without interruption between CBTC and TPWS/AWS.

³ For further information contact NR (see section 1.6.4) and see also https://orr.gov.uk/rail/consultations/open-consultations/application-for-exemption-from-train-protection- dutiespaddington-to-heathrow-airport-junction

2.3.11 Traffic Control Systems

The RCC is the combined traffic control, signalling control, electrical control and a communication centre for the CCOS and is responsible for all day-to-day railway operating activities.

Trains on the CCOS are regulated according to train regulation policies agreed in accordance with the CCOS Railway Operational Code. Traffic is regulated by the management of real time performance.

The traffic management system utilised by the RCC operates on three levels:

- 1 Manual route setting: This may be used for degraded modes, management of unplanned services and overrides as required;
- Automatic Route Setting: in this mode the system sets routes to the timetable when trains are running to time. During perturbation Automatic Route Setting will set routes to minimise delays; and
- Automatic Train Regulation: in this mode the system will correct minor perturbations by monitoring the train service and making adjustments to station dwell times and inter-station run profiles to bring a train back to right time running.

2.3.12 Communication Systems

GSM-R is installed throughout the CCOS. GSM-R is a secure radio system used for communication between drivers and signallers. It allows signalling staff to address drivers of individual trains and to create emergency calls and other broadcasts to all trains in pre-defined areas to alert them to incidents or operational circumstances that affect them. Drivers may also create similar emergency calls in the event of an emergency that threatens the operational safety of other vehicles. All traction units that operate on the CCOS must be fitted with this system.

2.3.13 Train Control Systems

The signalling system provides Automatic Train Protection (ATP) and Automatic Train Operation (ATO) functionality.

2.4 Traffic Restrictions

2.4.1 Specialised Infrastructure

RfL(I) may designate particular sections of its infrastructure for use by specified types of rail service and may give priority to that specified type in the allocation of infrastructure capacity. This is subject to certain matters as set out in regulation 25 of the Rail Regulations 2016. The purpose of such a designation is to enable priority to be given to the specified type of rail service, even though there may be other types of rail service which conform to the characteristics necessary to use that infrastructure.

The whole of the CCOS has been designated by RfL(I) as Specialised Infrastructure under regulation 25 of the Rail Regulations 2016. This has the effect that for the

allocation of capacity, priority will be given to high capacity metro passenger rail services⁴.

2.4.2 Environmental Restrictions

Railway Undertakings are required to provide RfL(I) with copies of their current environmental policy and environmental management systems. A Railway Undertaking's environmental policy must have due regard to the environmental policy of RfL(I)⁵ and adopting good industry practice in relation to energy efficiency. Further environmental restrictions applicable to the CCOS can be found in Part E of the CCOS Network Code.

Rolling stock must be configured so that Electromagnetic compatibility (EMC) complies with adjacent NR, LUL and DLR requirements as well as those of the CCOS.

2.4.3 Dangerous Goods

Please refer to section 3.4.4.

2.4.4 Tunnel Restrictions

All trains shall comply with the Safety in Railway Tunnels NTSN Category A.

Passenger train running capability shall be sufficient to ensure that, in the event of a fire being initiated immediately on departure from a sub-surface station, the train shall be capable of reaching within five minutes the next CCOS station or a location where a passenger evacuation can be performed (see below).

Passenger train peak heat release rate shall not exceed 8.8MW within a period of 30 minutes from ignition of the fire for all reasonably foreseeable fire scenarios. Scenarios shall include a passenger luggage fire source of up to 500kW.

Passenger evacuation may be performed at:

- (a) all RfL(I) Stations (see section 1.1);
- (b) all LUL Stations (see section 1.1);
- (c) the ELTOC Station (see section 1.1); and
- (d) the tunnel portal areas at Pudding Mill Lane, Royal Oak, Victoria Dock, North Woolwich and Plumstead.

As indicated in section 2.1, the CCOS is an electrified railway on which train operations with diesel locomotives are not permitted (due to the limited ventilation system and risk of fire), except under special instructions and arrangements.

⁴ https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section

⁵ RfL(I) adopts the TfL policy available here: https://content.tfl.gov.uk/tfl-safety-health-and-policy.pdf

To facilitate rescue in event of break down, all trains on the CCOS must be capable of being coupled to, and propelled by, a Class 345 unit. Class 345 units are equipped with a Dellner 12 coupler with a centreline 925mm above rail level and a nominal air pressure of 10bar.

As noted in 2.3.3 the sub-surface Stations are equipped with platform screen doors. Applicants wishing to operate passenger services with Rolling Stock with a door configuration not compatible with the platform screen doors (including services not stopping on the CCOS) will need to demonstrate that acceptable evacuation times can be achieved.

2.4.5 Bridge Restrictions

There are no bridge restrictions on the CCOS.

2.5 Availability of the Infrastructure

The CCOS remains closed on 25 December every year. However, Railway Undertakings may apply to operate train services on this day and RfL(I) may accommodate such requests.

For further restrictions on the availability of the CCOS, please refer to section 4.3.

2.6 Infrastructure Development

The CCOS is new infrastructure which became operational for revenue earning passenger services on the 24th May 2022.

As such there are currently no plans for enhancement of the infrastructure in the period until the first review of charges (see section 5.2.2).

The CCOS infrastructure has been designed and delivered to enable a subsequent upgrade in the maximum available capacity to thirty 240m long trains per hour. There is no current funded plan to deliver this upgrade.

3 Access Conditions

3.1 Introduction

Section 3 of this Network Statement describes the terms and conditions related to access to the railway infrastructure managed by RfL(I).

3.2 General Access Requirements

Access to the CCOS is principally governed by the Act and the Rail Regulations 2016. This regime also covers networks other than the CCOS, to the extent that such networks have not been exempted or otherwise excluded from regulation (the LUL network is an example of a network exempted from the Act and excluded from the scope of the Rail Regulations 2016).

Following a consultation in April 2017, the ORR has granted RfL(I) an exemption in respect of the CCOS from the requirement to hold a network licence under the Act effective from 1st April 2018. However, the access provisions of the Act, together with the Rail Regulations 2016 apply to the CCOS and RfL(I).

Under the Act, anyone seeking access to the rail network in order to operate trains requires a track access contract with the relevant "facility owner", granting permission to use that facility. RfL(I) is the facility owner of the CCOS track network.

Stations and light maintenance depots are treated as separate facilities. If a Railway Undertaking requires access to a station or light maintenance depot, it will need to enter into either an access contract with the facility owner (where the facility is regulated under the Act) or a usage agreement with the relevant owner (where the facility has been exempted from the relevant provisions of the Act). RfL(I) is the facility owner of each of the RfL(I) Stations. LUL is the relevant facility owner of each of the LUL Stations and the ELTOC is the relevant facility owner of the ELTOC Station.

Under the Act, Railway Undertakings may only enter into an access contract with a facility owner (e.g. RfL(I) or another facility owner) for permission to use that owner's facility if the ORR so directs. If these access contracts (and any amendments to them) are not approved by the ORR where that is required by law, they are invalid. A direction of the ORR is not required for a usage agreement in respect of a facility which has been exempted from the relevant provisions of the Act.

Where the parties have not been able to agree on the terms of a new access contract or subsequent amendment of an existing access contract where the applicant is seeking more extensive use of the network, the ORR may be asked to issue directions requiring the facility owner to enter into or amend the access contract as determined by the ORR.

RfL(I) will guide Railway Undertakings seeking access to the CCOS through the track access application process. Please contact the Network Performance and Strategy Manager (see section 1.6.1).

The ORR has also developed a guide to help prospective operators entitled "Starting Main Line Train operations: A guide to the regulatory framework" for potential train operators⁶.

3.2.1 Conditions for Applying for Capacity

To apply for a Train Path on the CCOS, an Applicant must have entered into a Track Access Contract or confirm in writing that it will be willing to enter into a Track Access Contract. Please refer to Section 3.3 for further information.

The timetabling process (governed by Part D of the CCOS Network Code) is open to anyone who is a party to the CCOS Network Code by virtue of having a Track Access Contract with RfL(I) or who proposes (in good faith) to enter into such a Track Access Contract and has agreed to be bound by the relevant provisions of the CCOS Network Code and the CCOS Access Dispute Resolution Rules. Such a person does not need otherwise to satisfy the requirements referred to in section 3.2.2 below to participate in the timetabling process, although those requirements will need to be satisfied before actual use of the Train Paths takes place.

Following the submission of a completed template form for requests for capacity from a current or potential Railway Undertaking (see section 4.1), RfL(I) will provide an update on its framework capacity statement (see section 4.4) to advise on the available capacity on the CCOS. If such Train Paths are available or are likely to become available, RfL(I) will guide the Railway Undertaking through the timetabling process.

Railway Undertakings normally participate directly in the timetabling process. However, a Railway Undertaking (or potential Railway Undertaking or other holder of access rights) may engage a third party (such as another Railway Undertaking or an independent consultancy) to make its requests for Train Paths. Where an operator makes use of the "One Stop Shop" arrangements offered by another European infrastructure manager or RailNetEurope then that infrastructure manager acts as the "Timetable Participant" within the Great Britain timetabling process.

Under the Rail Regulations 2016 an applicant who has been granted Train Paths by RfL(I) through a Track Access Contract specifying the characteristics of the access granted or specific infrastructure capacity in the form of a Train Path, cannot trade that capacity with another applicant or transfer it to another undertaking or service.

Any person who trades in capacity contrary to the provisions stated above shall not be entitled to apply for capacity for the period of the Working Timetable to which the allocation of capacity transferred relates.

3.2.2 Conditions for Access to the Railway Infrastructure

Track Access Contracts contain a number of conditions which must be satisfied by an Applicant before it can use a Train Path. These conditions require the Applicant to:

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⁶ http://orr.gov.uk/ data/assets/pdf file/0015/4434/starting-mainline-operations.pdf

- (a) hold a valid licence to be the operator of trains granted under section 8 of the Act or a licence exemption granted by the ORR or hold a railway undertaking licence (whether passenger or freight) and a Statement of National Regulatory Provisions ("SNRP") granted or recognised under the Licensing Regulations (see section 3.2.3);
- (b) hold a valid and current safety certificate (see section 3.2.4);
- (c) become a signatory to the Claims Allocation and Handling Agreement and to the CCOS Access Dispute Resolution Rules (which are incorporated into a Track Access Contract by way of the CCOS Network Code);
- (d) if the Applicant is intending to operate passenger services, become a signatory to the Station Access Agreements (or Station Usage Agreements) for the stations it intends to use and such other agreements as may be specified in the relevant Track Access Contract; and
- (e) have appropriate insurance (see section 3.2.5) this would also form part of the conditions to obtain the licence referred to in paragraph (a) above.

As noted above, the Act provides for the ORR to direct RfL(I) to enter into a Track Access Contract in respect of the CCOS. Otherwise, such agreement will be invalid. In addition, RfL(I) reserves the right to require the Applicant to provide credit protection for the benefit of RfL(I) (see section 5.2.3).

The CCOS has been declared as Specialised Infrastructure pursuant to regulation 25 of the Rail Regulations 2016 (see section 2.4.1). Applicants who require access to and egress from the CCOS by means of other networks are advised also to check the requirements of the relevant infrastructure managers (see section 1.6).

3.2.3 Licences

The Act makes it an offence to act as the operator of a train in Great Britain without holding a licence or a licence exemption granted under the Act. However, where a person seeking to act as the operator of a passenger train or freight train falls within the scope of the Licensing Regulations, then he may do so with the benefit of a railway undertaking licence (whether a railway undertaking passenger licence or a railway undertaking freight licence) and associated SNRP.

The ORR is the body responsible for issuing licences under the Act, railway undertaking licences under the Licensing Regulations (which may also be issued by corresponding bodies in member states of the European Union) and SNRPs in Great Britain, to domestic and international users. For further information, please refer to the ORR website http://orr.gov.uk/rail/licensing/licensing-the-railway.

To the extent that a train operator is required to be licensed, there will be obligations within the licence with which that train operator must comply, which would normally include becoming a licensed member of the Rail Delivery Group, producing a Disabled People's Protection Policy and a Complaints Handling Procedure. The train operator may also be required to become a member of the Rail Safety and Standards Board.

3.2.4 Safety Certificate

Anyone seeking to operate a train on the CCOS will be required to establish and maintain an appropriate safety management system and hold a safety certificate meeting the requirements of the ROGS Regulations.

Subject to compatibility, Part A of a safety certificate issued by the relevant authority (whether the ORR in Great Britain or the appropriate authority in a particular member state of the European Union) is recognised for such purposes whilst Part B is required to operate in Great Britain and is granted by the ORR. Applications for a safety certificate under the ROGS should be made to the ORR and copied to affected parties, including RfL(I). Please visit the ORR's website for more details:

https://www.orr.gov.uk/guidance-compliance/rail/health-safety

http://orr.gov.uk/what-and-how-we-regulate/health-and-safety/regulation-and-certification/rogs/safety-certificates-and-authorisation

Rolling Stock acceptance and staff competence are dealt with in sections 3.4. Further information, including guidance documentation and details on how to make an application can be found on the ORR's website using the links above.

3.2.5 Insurance

All licensed Railway Undertakings must maintain the insurance cover required by the conditions of their licence (or SNRP) against third party liabilities. The terms of insurance requirements are set by the ORR. In respect of third party liabilities, Railway Undertakings are required to maintain an insurance cover of not less than £155 million per incident in respect of all liabilities to third parties, although lower limits may be agreed where appropriate on application to the ORR.

For licensed operators, the ORR has a general approval for their renewal of third party liability insurance. The terms of the general approval can be downloaded from the ORR's website at the following link:

http://orr.gov.uk/ data/assets/pdf file/0015/2193/3rdptyins genapp-230207.pdf

3.3 Contractual Arrangements

3.3.1 Framework Agreement

A "framework agreement" specifies the characteristics of the infrastructure capacity allocated to an Applicant over a period of time exceeding the duration of a single timetable period. It does not specify Train Paths in detail but provides an assurance that suitable capacity should be available to meet the commercial needs of the Applicant as envisaged at the time of entering into the agreement.

For the CCOS, the function of framework agreements is fulfilled by the Framework Track Access Contracts made between the Applicant and RfL(I).

As already noted above, all regulated access contracts (and any amendments to such access contracts) are subject to approval by the ORR; if not approved, the contracts will be legally invalid.

A range of template access contracts have been published by RfL(I) at: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section. The template contracts have been published on the basis that the ORR encourages, and expects, their use. Where the contracting parties wish to depart from a template contract, they must explain the reasons for this.

3.3.2 Contracts with Railway Undertakings

There are a range of documents setting out general commercial conditions and rules in respect of access to the CCOS. These are discussed below and are available here: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

3.3.2.1 Track Access Contract

Applicants seeking access to the CCOS must enter into Track Access Contract to cover the full scope of the intended operations, before those operations may begin (such contracts are described further in section 3.3.1).

Where an Applicant wishes to enter into a Track Access Contract it should contact RfL(I) at the earliest opportunity to discuss its requirements.

3.3.2.2 Station Access Contracts

Applicants seeking access to the stations served by the CCOS infrastructure will need to enter into separate access contracts with the relevant station facility owner (in the case of a facility regulated under the Act – the RfL(I) Stations and the ELTOC Station) or usage contracts with the relevant station owner (where a facility is exempted from certain provisions of the Act – the LUL Stations).

Unregulated Station Usage Agreements in relation to the LUL Stations do not require the approval of the ORR.

3.3.2.3 CCOS Network Code

The CCOS Network Code (which can be found at

https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section) is a common set of rules that is incorporated by reference into each Track Access Contract. This covers the multilateral legal relationship between RfL(I) and each train operator that uses the CCOS. The CCOS Network Code does not create any contractual relationship between train operators but it should be noted that, in the event that there is a conflict of interpretation between the CCOS Network Code and the Track Access Contract, the CCOS Network Code prevails. Any person who is party to a Track Access Contract is subject to meeting all the obligations within the CCOS Network Code.

The CCOS Network Code sets out procedures relating to the operation of the CCOS. The code regulates change including changes to railway vehicles and to the CCOS itself. The CCOS Network Code also deals with the process for establishing a working timetable, addressing operational disruption and performance improvement planning and monitoring.

The Delay Attribution Principles and Rules are incorporated into the CCOS Network Code (Part B) and provide guidance for the consistency of application and approach

by all parties involved in the process of delay attribution. The Delay Attribution Principles and Rules used on the CCOS is the same as the Delay Attribution Principles and Rules used by NR in relation to the NR Network. The CCOS Access Dispute Resolution Rules are appended to the CCOS Network Code and set out how disputes under track access contracts are resolved.

Particular attention is drawn to the requirements under Part D of the CCOS Network Code setting out the processes outlined for establishing the CCOS Engineering Access Statement and the CCOS Timetable Planning Rules.

3.3.2.4 CCOS Railway Operational Code

The CCOS Railway Operational Code is discussed in section 6.3.2.

3.3.2.5 CCOS Emergency Access Code

The CCOS Emergency Access Code grants a Railway Undertaking permitted to use the CCOS a permission to use railway facilities of other Railway Undertakings and RfL(I) in case of an emergency on or affecting the CCOS for the duration of such emergency and for as long after the cessation of such emergency as shall be reasonably necessary. The stabling charges for accessing any such facility in an emergency can be obtained from the relevant owner.

3.3.2.6 CCOS Performance Data Accuracy Code

The CCOS Performance Data Accuracy Code specifies the standards of accuracy in the recording of data required to be satisfied by the performance monitoring system established in the CCOS Network Code. It also provides a mechanism for agreeing and notifying changes to such standards.

3.3.2.7 CCOS Systems Code

The CCOS Systems Code describes the systems utilised on the CCOS and the process required to be undertaken for changes proposed to those systems.

3.3.2.8 Station Access Conditions

When an Applicant enters into a Station Access Agreement in respect of an RfL(I) Station, the Station Access Agreement shall incorporate the RfL(I) Station Access Conditions which set out the operational arrangements applicable to the operation of the RfL(I) Stations. The RfL(I) Station access documentation is available here: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

3.3.3 Contracts with Non Railway Undertaking Applicants

Prospective non Railway Undertaking applicants wishing to apply for a Train Path should contact RfL(I) using the details set out in section 1.6.1.

3.4 Specific Access Requirements

3.4.1 Rolling Stock Acceptance

Any party wishing to introduce a new vehicle onto the CCOS network or make a change to the operation or engineering of an existing vehicle must consider the effect

of this on all other Railway Undertakings and on RfL(I). To aid Railway Undertakings in the discharge of this duty, RfL(I) engages in compatibility consultation processes which provide a structured mechanism for assessing and agreeing any capacity, safety, regulatory and commercial issues that exist between the Railway Undertaking, RfL(I), and other Railway Undertakings. Consultation is required for:

- (a) introduction of new rail vehicles;
- (b) substantial alterations to vehicles; and
- (c) addition of vehicles with route clearance to vehicles permitted under a Track Access Contract.

There are two processes involved:

- demonstration of compatibility between a vehicle and the routes over which the Railway Undertaking wishes to operate it, as per Railway Industry Standard RIS 8270-RST, resulting in a Summary of Compatibility; and
- Vehicle Change (Part F of the CCOS Network Code) which deals with the commercial issues associated with the introduction of new vehicles, or new routes for existing vehicles.

In addition to this, Railway Undertakings must arrange for new vehicles to be assessed to prove that they are compliant with all relevant CCOS Standards and Technical Specifications for Interoperability as part of their authorisation (by the ORR); provision of this evidence facilitates an efficient compatibility assessment. Further information on the ORR's authorisation process can be found at: http://orr.gov.uk/rail/health-and-safety/health-and-safety-laws

A full clearance assessment will need to be carried out before any introduction of rolling stock to the CCOS.

The CCOS is currently cleared for Alstom Aventra Model LV-BXR-13 (Class 345).

The full clearance assessment can be through various approaches including absolute or comparative gauging techniques as set out below:

- (a) If the new vehicle fits within the dynamic envelope of a class 345 unit, clearance can be applied for through comparative gauging; or
- (b) Otherwise, clearance can be applied for through the "structure gauge approach". This requires the vehicles to be specifically assessed by RfL(I) against the CCOS structure gauges. Various assessments are undertaken to ensure that sufficient clearance exists between the new Rolling Stock, other vehicles or structures, after allowance has been made for displacements of the vehicles on curves and through the platform areas.

RfL(I) generally expects a party wishing to introduce new rolling stock onto the CCOS to first ensure that the rolling stock is accepted for introduction on a network other than the CCOS. The same applies to a party wishing to make modifications to rolling stock already operating on the CCOS under the Vehicle Change process set out in Part F of the CCOS Network Code. Given the size of the CCOS (and necessary connections to the NR Network) this is intended to avoid disproportionate levels of

disruption on the CCOS which may arise from unproven or modified rolling stock being operated.

Please also see section 2.3.4 (Loading Gauge) above. If more information is required, please contact RfL(I).

National Vehicle Register (NVR)

The National Vehicle Register is a database of vehicles authorised to operate in Great Britain under the Railways (Interoperability) Regulations 2011. The Secretary of State has appointed NR as the Registration Entity, who is responsible for maintaining the Register. When a vehicle is placed into service for the first time, the Registration Holder is responsible for notifying details of the entity in charge of maintenance (ECM) to NR. The ROGS Regulations require that no person may place in service or use a vehicle on the mainline railway unless that vehicle has an ECM assigned to it, and that ECM is registered as such in the NVR. For more information, please contact:

NVR Registration Entity Network Rail Infrastructure Limited The Quadrant:MK Elder Gate Milton Keynes MK9 1EN

Tel: +44 (0) 1908 781 346 Email: NVR@networkrail.co.uk

3.4.2 Staff Acceptance

Railway Undertakings are responsible for ensuring that their staff that are involved with or affect the movement of trains are competent to perform their duties and comply with the relevant policies and codes of practice applicable to the CCOS.

The ORR has published guidance on Developing and Maintaining Staff Competence: http://orr.gov.uk/ data/assets/pdf_file/0016/4264/sf-dev-staff.pdf

Train Driving Licences

The Train Driving Licences and Certificates Regulations 2010 establish a licensing and certification system for train drivers on the rail network. It is aimed not only at drivers but also at other train crew who participate directly or indirectly in driving and whose professional qualifications therefore contribute to transport safety.

The application and authorisation process is managed by the ORR – further details can be found at: http://orr.gov.uk/rail/licensing/train-driving-licences-and-certificates

3.4.3 Exceptional Transport

Special conditions of travel may need to be applied to certain vehicles or loads because of their size, weight or other unusual features. These conditions may include speed restrictions, train marshalling restrictions and/or special instructions for passing trains on adjoining lines, and are determined on an individual basis by comparing the consignment with the characteristics of the CCOS.

3.4.4 Dangerous Goods

Goods which are capable of posing a risk to health, safety, property and the environment during carriage by rail are classified as "Dangerous Goods" according to the Regulations concerning the International Carriage of Dangerous Goods by Rail and the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2012. Both sets of regulations apply to Railway Undertakings operating on the CCOS. Dangerous Goods will not be permitted on the CCOS.

3.4.5 Test Trains and Other Special Trains

For advice please contact RfL(I) using the details in 1.6.1.

4 Capacity Allocation

4.1 Introduction

RfL(I) is responsible for allocation of capacity on the CCOS. Railway Undertakings provide RfL(I) with details of the trains they wish to run on the CCOS and RfL(I) in conjunction with NR co-ordinates these capacity requests into a working timetable.

Railway Undertakings need access rights specified in a Track Access Contract to be allocated capacity on the CCOS. These access rights are set out in a Schedule (usually Schedule 5) to each Track Access Contract that the Railway Undertaking has with RfL(I). Provision is also made for those who aspire to obtain a Track Access Contract to have access to capacity information. This is to assist them in obtaining the necessary Track Access Contract and Train Slots in the timetable. See section 3.2.1 above for more information on this.

RfL(I) has published a template form for requests for capacity which is available here: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

4.2 General Description of Process

How RfL(I) allocates capacity is set out in Part D of the CCOS Network Code.

As noted in section 2.4.1 the CCOS is designated Specialised Infrastructure such that priority in the allocation of capacity will be given to high capacity metro passenger rail services.

The reservation of capacity on the CCOS will be undertaken by RfL(I) through entering into a Track Access Contract. The capacity rights under a Track Access Contract are translated into Train Slots in the timetable through the timetabling process. Details of the timetabling process are found in Part D of the CCOS Network Code, and described in sections 4.3 to 4.5 below.

Where an Applicant has requested and has been allocated capacity on the CCOS in accordance with regulation 22(1) or 24(1) of the Rail Regulations 2016 and it has not entered into a Framework Track Access Contract, it will be required to enter into an Access Contract with RfL(I). The Access Contract will expire at the end of the relevant timetable period and will only reflect the capacity which has been allocated to that Applicant through the timetabling process (i.e. the Train Paths allocated to that Applicant for the relevant timetable period).

As access to the CCOS requires entry from the NR Network, and services operating solely on the CCOS must access the NR Network for facilities such as rolling stock maintenance, Applicants for access must not only seek rights from RfL(I) but also from NR. Whilst RfL(I) will not refuse access, failure to secure access rights from NR may mean that for practical purposes the Railway Undertaking will not be able to access the CCOS.

The timescale for access requests for the CCOS thus mirrors the timetable employed on the NR Network (see section 4.5 below).

Further, NR will manage the coordination of capacity requests into a working timetable. Applicants should therefore also include details of any CCOS only paths in their application to NR.

4.3 Reserving Capacity for Temporary Capacity Restrictions

4.3.1 General Principles

Please refer to section 4.2 for details of the capacity allocation process, the coordination procedure that applies and place of publication.

4.3.2 Deadlines and Information Provide to Applicants

The CCOS Engineering Access Statement sets out the Possessions required by RfL(I) in order to carry out inspections, maintenance, repair, renewal and enhancement works on the CCOS. The CCOS Engineering Access Statement specifies:

- (a) the location, number, timing and duration of any Possessions of any track or section of track, which enable inspection, maintenance, renewal and repair thereof or of any other railway asset or any other works in relation thereto, and any restrictions regarding those Possessions;
- (b) any temporary speed and other restrictions on the operation of trains on any section of track (including the intended duration of such restrictions), which may be necessary to carry out any inspection, maintenance, renewal or repair referred to in section (a) above; and
- (c) any alternative stopping patterns which may apply during any Possessions referred to in section (a) above.

The CCOS Engineering Access Statement is settled each year through a consultation process set out in Condition D2 of Part D of the CCOS Network Code.

Once agreed the CCOS Engineering Access Statement and the CCOS Timetable Planning Rules form RfL(I)'s firm rights for running engineering trains and allocating capacity for the purposes of undertaking engineering activities. Following agreement of the CCOS Engineering Access Statement and the CCOS Timetable Planning Rules, it is still possible for RfL(I) to undertake unplanned engineering activities. Please see conditions D3.4 and D3.5 of the CCOS Network Code which sets out the process for doing this.

Changes for engineering work under condition D3 are planned on a weekly basis with the objective of having a confirmed timetable 12 weeks in advance of their operation which can then be used, with confidence, by Railway Undertakings and for their passengers to plan their journeys. However, sometimes RfL(I) has to undertake short notice Possessions. These are dealt with under condition D3 of the CCOS Network Code.

The relevant Track Access Contract will set out the provisions for the compensation to be payable by RfL(I) when it seeks to place restrictions of use on the CCOS for the purposes of carrying out inspections, maintenance, repair, renewal and enhancement works on the CCOS. Under the Possessions regime applicable on the CCOS, the

relevant Railway Undertaking will be entitled to recover its directly incurred incremental costs and demonstrable revenue losses arising from restrictions of use placed by RfL(I) in excess of an allowance specified in the relevant Track Access Contract and reflected in the CCOS Engineering Access Statement (see Appendix 3).

The CCOS Engineering Access Statement document is available here: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

4.4 Impact of Framework Agreements

A Framework Track Access Contract is an agreement between RfL(I) and a Railway Undertaking which specifies the capacity to which the Railway Undertaking is entitled (access rights) for a period in excess of one year. Access rights can be Firm Rights or Contingent Rights. The Working Timetable must be consistent with the exercised firm rights of Railway Undertakings, provided that they have been exercised at or before the relevant Priority Date. RfL(I) must also attempt to accommodate all Access Proposals supported by Contingent Rights but Firm Rights always take priority. If it is not possible to accommodate all Access Proposals then Train Slots will be allocated in the following priority order, as set out in Part D of the CCOS Network Code:

- 1 First, high capacity metro passenger rail services; and
- 2 Second, other trains,

following which RfL(I) will apply certain considerations set out in Condition D4.6.1(b) of the CCOS Network Code to Access Proposals falling within the same "tier". This is in order to achieve the objective of sharing the capacity on the CCOS for the safe carriage of passengers and goods in the most efficient and economical manner in the overall interest of current and prospective users, providers and funders of railway services.

Potential Applicants can obtain information about the capacity allocated under Framework Track Access Contracts and thus the indicative capacity still available for concluding Framework Track Access Contracts by referring to the Framework Capacity Statements available here: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

RfL(I) considers the maximum available capacity to be 24 trains per hour between Paddington and Stepney Green Junction throughout operational hours and indicative capacity available is calculated accordingly.

4.5 Path Allocation Process

4.5.1 Annual Timetable Path Requests

RfL(I) follows the process and timeline for scheduling path requests as specified in Part D of the CCOS Network Code.

So that timetable changes occur on the same day across Europe, RfL(I)'s annual timetable starts on the Sunday immediately after the second Saturday in December.

This is known as the Principal Timetable. To allow Railway Undertakings to fine-tune their services mid-way through the year, a new updated timetable starts each May. This is known as the Subsidiary Timetable.

The 2025 Principal Timetable runs from Sunday 15th December 2024 to Saturday 17th May 2025 and the Subsidiary Timetable runs from Sunday 18th May 2025 to Saturday 14th December 2025. The Priority Date (i.e. D-40: the date by which Access Proposals submitted to RfL(I) are given priority in the compilation of the timetable in certain circumstances set out in Condition D4.2 of the CCOS Network Code) is Friday 8 March 2024 for the Principal Timetable and Friday 9 August 2024 for the Subsidiary Timetable.

Each year at D-67 before the Principal Change Date RfL(I) will publish a schedule of dates for timetable production. This is set out in Appendix 5 to this Network Statement. The CCOS Network Code sets out when each step should be completed by D - x. Each new timetable starts at D-0 so D-1 is at 1700 on the Friday one week before the timetable change. The various steps then number back from this point.

NR also produces a more comprehensive document setting out all the dates and stages involved in creating the Principal and Subsidiary Timetables and the weekly amended timetable process. Copies of this document are supplied free of charge to all people and organisations who participate in the NR capacity allocation process. Initial copies are available from NR at the address shown in section 1.6.5 above and on the NR website https://www.networkrail.co.uk/industry-and-commercial/information-for-operators/operational-rules/.

Potential Railway Undertakings are advised to contact RfL(I) or NR to obtain further information about the timetabling process.

4.5.2 Late Annual Timetable Path Request

Where Railway Undertakings wish to obtain additional Train Paths or amend any of their existing paths, RfL(I) will endeavour to process such requests in line with the process used for Train Operator Variations as set out in Condition D3 of the CCOS Network Code. In accordance with RfL(I)'s obligations under the Rail Regulations 2016, RfL(I)'s procedures for dealing with requests for capacity allocation (including ad hoc requests – see section 4.5.3 below) are designed to ensure that RfL(I) treats all current and potential Railway Undertakings in a fair and non-discriminatory way.

The processes by which access proposals received between D-40 and D-26, and variations requested received after D-26 are described in the CCOS Network Code (Conditions D2.4.4 and D3.3), including the response timescales in respect of the latter. In respect of access proposals received after D-40 but before D-26 the requester will receive a response by D-26 to the extent reasonably practicable, as outlined in the CCOS Network Code Condition D2.4.4. There are no timescales pertaining to specific responses to any given access proposal between D-40 and D-26.

Where a Railway Undertaking is seeking an additional Train Path in excess of the capacity it has reserved in its Track Access Contract, unless the Railway Undertaking has rights to additional (or relief) Train Slots for special events in its Track Access Contract, a supplemental agreement would be required to grant the additional rights. RfL(I) and the Railway Undertaking would need to obtain the approval of the ORR to

any supplemental agreement.

4.5.3 Ad hoc Path Requests

Railway Undertakings can make ad hoc requests for capacity under condition D3 of the CCOS Network Code to meet variations in traffic.

4.5.4 Co-ordination Process

4.5.4.1 Calendar of Events

The CCOS Network Code requires that RfL(I) determines significant Events that will be taking place over the next 4 years and procure that NR records these in NR's Calendar of Events published under the NR Network Code. An Event is a major change (e.g. to infrastructure, a service pattern or rolling stock) which may lead to a change to an existing timetable that is more extensive than usually occurs during the bi-annual timetable change. These changes are planned in a separate process over a longer period of time by an Event Steering Group.

4.5.4.2 Timetable Planning Rules

The CCOS Timetable Planning Rules contain the rules regulating the standard timings together with other matters enabling trains to be scheduled into the working timetable for the CCOS.

The rules will include such data as sectional running times, headway and station working rules.

To ensure compatibility with the high capacity metro passenger services run on the CCOS, Rolling Stock will require a minimum braking and acceleration capability. For details please refer to the CCOS Timetable Planning Rules or contact RfL(I) (see section 1.6.1).

The CCOS Timetable Planning Rules also contain a procedure to enable amendments to be made to the CCOS Engineering Access Statement and the CCOS Timetable Planning Rules other than through the annual consultation process set out in Condition D2 of Part D of the CCOS Network Code.

The CCOS Timetable Planning Rules are settled each year through a consultation process set out in Condition D2 of Part D of the CCOS Network Code.

The CCOS Timetable Planning Rules document is available here: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

Railway Undertakings planning significant new services or significant amendments to their services that are not considered Events must notify RfL(I) and NR at the earliest opportunity and when possible before D-55. NR (as the co-ordinating infrastructure manager) then works on advanced proposals from D-55 to D-40.

Railway Undertakings wishing to amend their services should send RfL(I) and NR an Access Proposal. Access Proposals received by the Priority Date at D-40 have a higher priority than those received after the Priority Date. If Railway Undertakings wish to run new services they should state if they have unused access rights they

wish to exercise, or if they intend to obtain new access rights. Existing services that are unchanged by an Access Proposal will be considered in the timetable process as a Rolled Over Access Proposal.

Once NR (on behalf of RfL(I)) has all the Access Proposals and all the Rolled Over Access Proposals it will co-ordinate all the Train Slots within the timetable, so that each train is compliant with the CCOS Timetable Planning Rules. This takes place between D-40 and D-26. The New Working Timetable is published at D-26.

If NR (on behalf of RfL(I)) is unable to find compliant slots for all Access Proposals and Rolled Over Access Proposals, Train Slots will be allocated in the priority order as set out in Part D of the CCOS Network Code.

4.5.5 Dispute Resolution Process

4.5.5.1 Timetabling panel

Railway Undertakings have certain rights of appeal in respect of decisions made during the timetabling process. These appeals are heard by a specialist Timetabling Panel established by the Access Disputes Committee under the CCOS ADRR (see Section 1.3.3).

Appeals are governed by Condition D5 of the CCOS Network Code together with the CCOS Access Dispute Resolution Rules (see below). These rules provide the framework within which the Timetabling Panel may request information for the purposes of determining how a dispute may be resolved.

Referrals to the Panel must be made within the periods prescribed by Condition D5, which range from five to ten working days. The dispute procedures are designed to avoid or minimise impact on the timescales of the timetabling process. Determinations of the Timetabling Panel may be subject to a further level of appeal to ORR.

4.5.5.2 CCOS Access Dispute Resolution Rules

The CCOS ADRR set out options for resolution of disputes which arise out of particular commercial contracts. The purpose of the CCOS ADRR is to provide a clear, coherent, and effective structure for dealing with disputes that arise from access contracts and the CCOS Network Code (including Network Changes and Vehicle Changes but excluding timetabling disputes unless there are compelling reasons why it should not be allocated to the Timetabling Panel).

Further information on the CCOS ADRR can be found at the Access Disputes Committee website. See section 1.3.3 for information on the appeals procedure.

4.6 Congested Infrastructure

Under regulation 26 of the Rail Regulations 2016, RfL(I) must declare the relevant element of the CCOS to be congested if:

- After coordination and consultation, it is not possible to adequately satisfy a request for infrastructure capacity; or
- During the preparation of the timetable for the next timetable period it looks likely that an element of infrastructure will become congested during that

timetable period.

The CCOS is currently not a congested network within the above definition. Any declaration of congested infrastructure made by RfL(I) will be published in future Network Statements.

In the event that all or part of the CCOS becomes congested, RfL(I) will follow the process set out below to manage the congestion. The process comprises the following stages:

- Stage 1: Identification of the congested network segment and/or time zone;
- Stage 2: Undertake capacity analysis, unless a capacity enhancement plan is in the process of being implemented;
- Stage 3: Negotiation of a commercial resolution;
- Stage 4: Application of the regulatory framework to prioritise requests; and
- Stage 5: Determination of a specific investment resolution as identified in the capacity enhancement plan.

RfL(I)'s long-term planning processes already provide opportunities to both identify elements of congested infrastructure and provide a range of capacity analysis plans that are required to be published in association with any such declarations.

If all or part of the CCOS becomes congested, the priority criteria for the allocation of congested infrastructure shall be first, to high capacity metro passenger rail services and then to other trains, in accordance with the declaration of specialised infrastructure in respect of the CCOS. If these priority criteria do not resolve the question of competing requests for the allocation of congested infrastructure, RfL(I) will then take into account the matters described in condition D4.6.1(b) of the CCOS Network Code.

4.7 Exceptional Transports and Dangerous Goods

Dangerous Goods are not permitted on the CCOS.

The Railway Undertaking is obliged to state whether the transport that it wants to run has a load of such nature that it must be run as an exceptional transport.

Please refer to sections 3.4.3 and 3.4.4 for further details.

4.8 Rules after Path Allocation

4.8.1 Rules for Path Modification by the Applicant

Requests for path variation are governed by Condition D3 of the CCOS Network Code – please refer to that condition for details.

4.8.2 Rules for Path Alteration by the Applicant

Requests for path variation are governed by Condition D3 of the CCOS Network Code – please refer to that condition for details.

4.8.3 Non-Usage Rules by the Applicant

Part J of the CCOS Network Code, which is incorporated into Track Access Contracts, provides a means by which access rights may be removed in the event that a Railway Undertaking fails to use them (which may include, but is not limited to, situations where the CCOS is congested, reflecting regulation 29(3) of the Rail Regulations 2016).

RfL(I) may require a Railway Undertaking to surrender allocated capacity where the Railway Undertaking utilises that Train Slot on less than 50% of the occasions when it is available in any 28-day period. This may include where the CCOS has been declared congested.

4.8.4 Rules for cancellation by the Applicant

Part J of the CCOS Network Code, which is incorporated into Track Access Contracts, and in particular condition J4, provides a means by which access rights may be removed in the event that there is a "better use" for such access rights (which reflects regulation 21(5) of the Rail Regulations 2016).

5 Services and Charges

5.1 Introduction

Regulations 6(1) and 6(2) of the Rail Regulations 2016 oblige RfL(I) to provide the following services to the Railway Undertakings:

- (a) the minimum access package (as set out in section 5.3 below); and
- (b) track access to service facilities and, as a service provider, the supply of services, both as set out in section 5.3 below.

Regulation 6(11) of the Rail Regulations 2016 provides that a service provider may offer and provide the additional services as set out in section 5.4 below.

Regulation 6(12) of the Rail Regulations 2016 provides that a Railway Undertaking may request the supply of any of the ancillary services as set out in section 5.5 below from a service provider but the service provider is under no obligation to supply the services requested.

5.2 Charging Principles

5.2.1 Charging framework

Charges for the use of the CCOS are set out in Track Access Contracts through which RfL(I) grants permission to Railway Undertakings to use the CCOS. These agreements require the ORR's approval, and hence this approval extends to the charging arrangements within them. Under Regulation 14 of the Rail Regulations 2016, the ORR must also establish the charging framework and specific charging rules governing the determination of fees. Essentially the ORR is responsible for establishing the charging framework and RfL(I) is responsible for calculating all track access charges within this framework.

The ORR has established an interim charging framework for the CCOS and RfL(I) Stations which will apply from commencement of revenue earning services until such time as a final charging framework is established by ORR and implemented by RfL(I).

Under this interim charging framework RfL(I) will levy the Costs Directly Incurred Charge (see section 5.3.4.2) and the Traction Electricity Charge (see section 5.3.4.3) in relation to track access and the Qualifying Expenditure Charge (see section 5.3.6.2) in relation to access to the RfL(I) Stations.

RfL(I) is considering whether to make an application to the ORR to amend the interim charging framework established by the ORR to levy the additional charges set out below. There is no current application with the ORR in relation to such matters. If an application is made and if the ORR accepts such an application, the track and station access documentation, as well as any existing track and station access agreements between RfL(I) and Railway Undertakings, will be amended to reflect the ORR's determination of such application and the establishment of the amended charging framework.

 RfL(I) is minded to take advantage of the exception in paragraph 3 of schedule 3 of the Rail Regulations 2016 to recover some of the capital costs of constructing the CCOS together with all of the long term fixed costs of

- operating the infrastructure (other than costs in relation to the RfL(I) Stations).
- RfL(I) is minded to recover some of the capital costs of constructing the RfL(I) Stations together with the costs of maintaining repairing and renewing them under paragraph 1(6) of Schedule 3 of the Rail Regulations 2016.

RfL(I)'s proposals for the charges under the interim charging framework, and its outline proposals for those in the proposed charging framework, are discussed further in section 5.3 below.

5.2.2 Periodic Review of Charges

The template Track Access Contract contains provisions whereby the charges can be reviewed on a periodic basis. The frequency of reviews is every five years but with an initial review after approximately three years⁸. The shorter initial review period reflects the fact that the CCOS is new infrastructure and as such charges are based on prospective cost information and thus it will allow emerging deviations from expectation to be considered and reflected in the charges where appropriate at the earliest practicable opportunity.

The contractual review of charges takes place over a period of approximately 6 months prior to the commencement of a particular review period. For more information, please see part 3 of schedule 7 of RfL(I)'s template Track Access Contract.

5.2.3 Credit Protection

RfL(I) reserves the right to require the Applicant to provide credit protection for the benefit of RfL(I), which may be by way of: (a) advance payments to reduce and anticipate future obligations to pay infrastructure charges; or (b) contractual arrangements by which a financial institution such as a bank commits to ensure that such payments are effected once they are due. RfL(I) may do so where the Railway Undertaking's credit rating suggests that it may have difficulties in effecting regular payments for infrastructure charges. Any such request will be based on credit ratings not older than two years and will be for an amount not exceeding the estimated amount of infrastructure charges during two months of train operations requested. Any advance payments for infrastructure charges will be deducted from the aforementioned maximum amount.

5.3 Minimum Access Package

5.3.1 Composition of Minimum Access Package

The minimum access package as described in Schedule 2 of the Rail Regulations 2016 comprises the following:

- (a) handling of requests for infrastructure capacity; and
- (b) the right to utilise capacity which is granted, in particular:

⁸ The initial review period runs until the 31st March following the third anniversary of the commencement of revenue earning passenger train services on the CCOS. Based on the commencement of services on the CCOS on 24th May 2022 the initial review period runs to 31st March 2026

- (i) such railway infrastructure including track, points and junctions as are necessary to utilise that capacity;
- (ii) electrical supply equipment for traction current, where available and as is necessary to utilise that capacity;
- (iii) train control including signalling, regulation, dispatching and the communication and provision of information on train movements; and
- (iv) all other information required to implement or operate the service for which capacity has been granted.

5.3.2 Minimum Access Package for Connected Facilities

In relation to rail facilities that are not part of the CCOS, the provision of the minimum access package is the responsibility of the relevant service provider.

5.3.3 Tariffs

This section sets out the different charges for access to the CCOS.

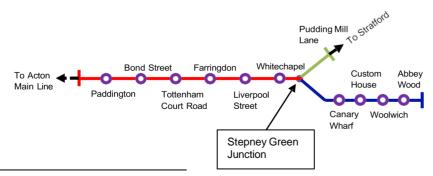
The tariff will comprise:

- (a) Investment Recovery Charge (passenger services only)⁷
- (b) Operations, Maintenance and Renewal Charges comprising:
 - (i) Costs Directly Incurred Charge; and
 - (ii) Fixed Cost Charge
- (c) Traction Electricity Charge
- (d) Other Services Charge

The charge for the Minimum Access Package shall comprise (a) and (b) above.

Charges in relation to (a) and (b) will be disaggregated by the following route sections:

- Westbourne Park / Westbourne Park Junction to Stepney Green Junction,
- Stepney Green Junction to Pudding Mill Lane Junction and
- Stepney Green Junction to Abbey Wood



⁷ An IRC is not currently charged to passenger operators. No application has yet been made by RfL(I) to the ORR to levy an IRC. Please see Appendix 6 for more details about the purpose of an IRC.

Costs are aggregated for each of the above route sections. This cost then needs to be divided by a measure of the capacity of that route section expected to be utilised (the denominator) to arrive at a charge per unit of capacity utilisation.

The expected capacity utilisation for the period to the first contractual review (see section 5.8) shall be based on the ultimate contractual service level commitment (as at the date of this Network Statement) to be operated by the ELTOC⁸. This service level commitment is based on an even service interval. The even service interval results in more capacity (Train Paths) being utilised than trains operated (train movements)⁹. The denominator for the Investment Recovery Charge (if in future RfL(I) levies such a charge) and Fixed Cost Charge shall be Train Paths utilised and for the Costs Directly Incurred Charge train movements.

CCOS Infrastructure route section	Paths, #'000	Movements, #'000
Westbourne Park / Westbourne Park Junction to Stepney Green Junction	301	263
Stepney Green Junction to Pudding Mill Lane Junction	151	132
Stepney Green Junction to Abbey Wood	151	132

5.3.4 Track Access Charge

5.3.4.1 Investment Recovery Charge

RfL(I) is considering whether to submit an application to the ORR for an Investment Recovery Charge (IRC). There is no current application. More information about the purpose of an Investment Recovery Charge is set out in Appendix 6.

5.3.4.2 Operations, Maintenance and Renewals Charges

The costs of Operations, Maintenance and Renewal (OMR) are recovered through two charges:

- (a) The Costs Directly Incurred Charge (CDIC); and
- (b) The Fixed Costs Charge (FCC).

CDIC and FCC are calculated based on the OMR expenditure forecast over 60 years, to obtain an average annual total OMR cost.

The CDIC recovers those costs that are directly incurred as a result of operating train services. These costs are recovered in accordance with paragraph 1(4) of Schedule

⁸ RfL(I) is not aware at this time of other prospective Railway Undertakings on the CCOS and therefore considers this to be an appropriate assumption. This includes the additional services announced in March 2017 see http://content.tfl.gov.uk/16-elizabeth-line.pdf .

⁹ For example, running 20 trains an hour at 3 minute intervals, with the minimum signalling headway for the CCOS of 2.5 minutes, means every 5 train movements are utilising 6 Train Paths (5*3 and 6*2.5 = 15).

3 of the Rail Regulations 2016.

The FCC will recover those OMR costs not directly incurred as a result of operating train services. These costs comprise the long term operating costs of the Crossrail project and are recovered in accordance with paragraph 3 of Schedule 3 of the Rail Regulations 2016.

Cost categorisation is based on the guidance set out in Commission Implementing Regulation (EU) 2015/909, as required by paragraph 1(5) of Schedule 3 of the Rail Regulations 2016.

The CDIC and FCC charges will recover the total OMR costs for the expected capacity utilisation.

Further information is provided in Appendix 1.

5.3.4.3 Traction Electricity Charge

Traction electricity (EC4T) is procured by RfL(I) on behalf of all Railway Undertakings. All charges that RfL(I) incurs in respect of traction electricity will be passed through to the Railway Undertakings. The "tariff" referred to below will include delivery charges such as charges levied by the UK national grid provider. The same tariff will apply to all traction electricity consumed by a Railway Undertaking on any section of the CCOS.

(a) Where there is only one Railway Undertaking consuming traction electricity on the CCOS

If there is only one Railway Undertaking consuming traction electricity on the CCOS at any point in time, the EC4T charge will be calculated as follows:

EC4T charge (£) = electricity consumption recorded on the infrastructure meters (kWh) x tariff (pence/kWh)

(b) Where there is more than one Railway Undertaking consuming traction electricity on the CCOS

If there is more than one Railway Undertaking consuming traction electricity on the CCOS at any point in time, the EC4T charge will be calculated as follows:

EC4T charge (£) = (electricity consumption recorded on the on-train meters (kWh) – electricity regeneration recorded on the on-train meters (kWh)) x (1 + distribution losses uplift) x tariff (pence/kWh)

As noted in section 5.4.1, all electric trains on CCOS shall be fitted with train meters compliant with BS EN 50463 Energy Measurement on Board Trains.

Where there is more than one Railway Undertaking consuming traction electricity on the CCOS at any point in time, there will be an annual adjustment to reflect any difference between the cost recovered as above and actual cost to RfL(I) of providing traction electricity. This adjustment process will take place following the end of each year ending on 31 March.

5.3.4.4 Charges for Testing Train Services

In so far as a Railway Undertaking proposing to operate rail services needs to

operate services during a testing period (and without revenue earning passengers on board) it will be liable to pay the CDIC plus any specific one off costs incurred by RfL(I) in facilitating such testing services. It may also be required to provide a performance bond to cover potential liabilities under the Track Access Contract (see also section 5.2.3).

5.3.5 Track Access to Service Facilities

Track access to service facilities located on the CCOS (other than Stations (see section 7.3.2)) is included in the minimum access package.

5.3.6 Supply of Services

5.3.6.1 Station Access Charges – LUL Stations

Charges for access to the LUL Stations are available from LUL using the contacts set out in section 1.6.7.

5.3.6.2 Station Access Charges – RfL(I) Stations

The Station Access Charges for use of the RfL(I) Stations comprise the Common charges and the Exclusive charges.

(a) Common charges

The common charges are made up of the following components:

- (i) Qualifying expenditure: This is the operating expenditure described in the RfL(I) Station Access Conditions and relevant Annexes incurred by RfL(I) calculated in accordance with the formula specified in the RfL(I) Station Access Conditions and relevant Annexes. The formula apportions the qualifying expenditure between Railway Undertakings by taking into account each Railway Undertaking's vehicle departures at the RfL(I) Station. The qualifying expenditure is levied on all Railway Undertakings using the relevant RfL(I) Station.
- (ii) **Long term charge**: The long term charge will reflect RfL(I)'s costs of the maintenance, renewal and repair activities at each RfL(I) Station. The charge

will be recovered from all Railway Undertakings whose services stop at the RfL(I) Station in proportion to the number of vehicle departures for each Railway Undertaking. The amount of the long term charge will be specified in the relevant Annexes to the RfL(I) Station Access Conditions for each RfL(I) Station and will be reviewed as per the specified formula.

(iii) **IRC**: The purpose of an IRC will be to recover publicly funded capital costs of the RfL(I) Stations in accordance with paragraph 1(6) of Schedule 3 of the Rail Regulations 2016. RfL(I) does not currently levy such a charge, so this is a potential future charge only.

(b) Exclusive charges

These are the charges to be paid by the respective Railway Undertaking for any bespoke services provided by RfL(I) to such Railway Undertaking at the relevant RfL(I) Station.

5.3.6.3 Station Access Charges – ELTOC station

Charges for access to the ELTOC Station are available from the ELTOC using the contacts set out in section 1.6.8. Such charges will comprise qualifying expenditure and a long term charge following similar principles to those outlined in section 5.3.6.2 for the same charges in relation to the RfL(I) Stations.

5.4 Additional Services and Charges

5.4.1 Traction Current

Power will be supplied to the Railway Undertakings by or on behalf of RfL(I) to facilitate the access rights granted to a Railway Undertaking under the relevant Track Access Contract.

All electric trains on CCOS shall be fitted with train meters compliant with BS EN 50463 Energy Measurement on Board Trains.

5.4.2 Services for Trains (Pre-heating, water supply, toilet waste disposal etc.)

Not provided on the CCOS.

5.4.3 Services for Exceptional Transports

A risk assessment service in respect of compatibility with the CCOS may be provided by RfL(I) as part of the route acceptance procedure for exceptional transport.

5.4.4 Any Other Additional Services

Not provided on the CCOS.

5.5 Ancillary Services

5.5.1 Access to Telecommunications Network

The use of RfL(I)'s communications network described in section 2.3.12 is for those activities contained within the minimum access package.

5.5.2 Provision of Supplementary Information

There will be a charge for the provision of supplementary information which will be assessed on the nature and scope of the information being requested and levied in accordance with the Rail Regulations 2016.

5.5.3 Any Other Ancillary Services

None proposed.

5.6 Financial Penalties and Incentives

5.6.1 Penalties for Path Modification

At present there are no penalties or charges levied for path modifications.

5.6.2 Penalties for Path Alteration

At present there are no penalties or charges levied for path modifications.

5.6.3 Penalties for Non-Usage

Regulation 17 of the 2016 Regulations authorises an infrastructure manager to levy an appropriate charge for capacity that is requested but not used. RfL(I) proposes to levy such reservation charges under the Track Access Contract. The charge will be the sum of the IRC (if any) and FCC for the relevant Train Path.

It is proposed that the capacity reservation charge would be payable by the Railway Undertaking on and from the date the reservation of capacity commences unless the reserved capacity is used by the Railway Undertaking or another person. Capacity will be treated as having been used by a Railway Undertaking if, as part of the timetabling process, such capacity has been translated into a Train Path and included in the relevant Working Timetable.

If the reserved capacity is used by another person then the Railway Undertaking would be entitled to a rebate of the lower of (a) the capacity reservation charge and (b) the equivalent amount paid by the operator using the Train Path.

The capacity reservation charge would not be payable by the Railway Undertaking:

- in relation to any part of the reserved capacity which the Railway Undertaking surrenders in accordance with the terms of the Track Access Contract; or
- if it bids for a Train Path in accordance with the relevant provisions of the CCOS Network Code but is unsuccessful in obtaining the Train Path.

Where a Track Access Contract is structured so as to provide an Applicant with an option to require RfL(I) to allocate to a Railway Undertaking certain specified capacity on CCOS, such capacity would be subject to the capacity reservation charge from the date when the option has been exercised and the Railway Undertaking is entitled to bid for the capacity, in accordance with the principles described above.

5.6.4 Penalties for Path Cancellation

At present there are no penalties or charges levied for path cancellations. However, through the CCOS performance regime an operator will make payments if they cause delay or cancel a train which then has a knock-on impact on another operators services, see section 5.7 below for more detail.

5.6.5 Incentives / Discounts

RfL(I) does not offer any incentives or discounts.

5.7 Performance Scheme

Regulation 16 of the Rail Regulations 2016 provides that an infrastructure manager must establish a performance regime as part of the charging system to encourage railway undertakings and the infrastructure manager to minimise disruption and improve the performance of the railway network. RfL(I) has developed a performance regime which is incorporated in the relevant Track Access Contract. Please refer to Appendix 2 for more details.

5.8 Changes to Charges

Subject to the paragraphs below, the applicable track access charges shall remain constant in real terms over the period to the initial contractual review (scheduled to have effect from 01 April 2026¹⁰). Each year the charges are adjusted by RPI.

Indicative proposed charges reflecting RfL(I)'s proposals as set out in section 5.3 and above are set out for information in the price list that sets out the charges payable under the interim charging framework. A further price list will be issued upon the ORR establishing the amended charging framework (see section 5.2.1). This is anticipated to be in mid-2024 but this date is indicative only and is subject to change.

The template Track Access Contract contains provisions whereby the charges may be amended on the occurrence of a "material" change in circumstances which beneficially or adversely affects the cost of delivering RfL(I)'s obligations and/or its asset management strategy and maintenance and renewals plans pursuant to that strategy. Such a material change includes the increase of decrease of 10% or more timetabled train movements on the CCOS, significant physical modifications to the CCOS and a material change to the CCOS Asset Management Strategy.

5.9 Billing Arrangements

RfL(I) will invoice Railway Undertakings via the TfL Financial Service Centre. Agreed terms and conditions, including those relating to non-payment or late payment are set out in the Track Access Contract. Certain payments are to be made four weekly in advance, other payments are to be made four weekly in arrears and a further payment is to be made following the calculation of any traction electricity charge adjustment.

¹⁰ See footnote 10 to Section 5.2.2.

5.9.1 Charges to be paid four weekly in advance

Where such charges are consistent with the then-current charging framework established by the ORR (see section 5.2.1) and are payable under the Track Access Contract, the following charges are to be paid four weekly in advance:

- (a) the proportion of the annual IRC payable in respect of such period (if any);
- (b) the proportion of the annual FCC payable in respect of such period; and
- (c) any further IRC which may become payable in respect of such period.

5.9.2 Charges to be paid four weekly in arrears

Where such charges are consistent with the then-current charging framework established by the ORR (see section 5.2.1) and are payable under the Track Access Contract, the following charges are to be paid four weekly in arrears:

- (a) the IRC for any additional trains operated during such period (if any);
- (b) the FCC for any additional trains operated during such period;
- (c) the CDIC payable in respect of such period; and
- (d) the EC4T payable in respect of such period.

5.9.3 Charge to be paid following the end of each year

Where more than one Railway Undertaking is operating on the CCOS at any point in time, as noted in section 5.3.4.3(b) a traction electricity adjustment charge will become payable following the end of each year ending on 31 March.

6 Operational Rules

6.1 Introduction

This section sets out rules concerning the obligations to be followed for train operations.

6.2 Operational Rules

6.2.1 CCOS Standards and CCOS Rule Book

CCOS Standards are Railway Group Standards. These are technical standards and operating procedures contributing to safe railway system operation published by the Railway Safety and Standards Board (RSSB). Compliance is mandatory by RSSB and the members of RSSB and it is subject to any approved non-compliance arrangements that are in place. RfL(I) is a member of RSSB.

RSSB has integrated the management of Railway Group Standards with the work that it does to support the industry on interoperability standards.

Copies of all Railway Group Standards can be found in the <u>Standards Catalogue</u> published on RSSB's website.

The CCOS Standards include the CCOS Rule Book, a modular document that includes procedures and specific working instructions in relation to general safety responsibilities: electrified lines; mishaps, incidents and extreme weather; on-track plant and machines; signals; speeds; shunting and station duties; track and signalling work; train signalling regulations and signalling general instructions; and train working. The CCOS Rule Book is available here:

https://tfl.gov.uk/corporate/publications-and-reports/elizabeth-line-rule-book

6.2.2 CCOS Sectional Appendix

The physical attributes of CCOS are described in an appendix to the CCOS Rule Book, the CCOS Sectional Appendix. It also contains any special instructions required to amplify the CCOS Rule Book in respect of operations at specific locations. This will form part of the national electronic sectional appendix published by NR¹¹.

Any queries should be addressed to the relevant facility owner (see section 1.6).

RfL(I) develops and maintains train regulation policies so as to provide a framework

6.3 Operational Measures

6.3.1 Principles

to enable regulating decisions to be made in a way that is fair, consistent and in the best interests of all Railway Undertakings so far as can reasonably be achieved, facilitating achievement of their performance objectives.

¹¹ Please see https://www.networkrail.co.uk/industry-commercial-partners/information-operating-companies/national-electronic-sectional-appendix/ for further information.

6.3.2 Operational Regulation

Train regulation policies are established by RfL(I) in consultation with Railway Undertakings, who may propose variations to them. Any disputes are determined by reference to the CCOS Access Dispute Resolution Rules and if necessary by further appeal to the ORR.

The arrangements are governed by the CCOS Railway Operational Code, the purpose of which is to sustain the operation of train services on the CCOS and to restore the operation of the CCOS following disruption.

6.3.3 Disturbances

6.3.3.1 Measures to be Undertaken

The measures to be undertaken in the case of disruption or anticipated disruption so as to sustain, and where necessary restore, operation of train services on the CCOS in accordance with the Working Timetable are set out the CCOS Railway Operational Code.

When a Disruptive Event occurs, RfL(I) will determine the appropriate actions to restore the Working Timetable as soon as is reasonably practicable, taking into account the needs of Railway Undertakings, the interests of safety and security and the efficient and economic operation of trains and the CCOS. Railway Undertakings are required to co-operate as regards such actions, which may include the provision of trains and train crew to clear the line.

RfL(I) will lead the process of development and maintenance of contingency plans and codes of practice which can be implemented in cases of Disruptive Events. Where a Disruptive Event is expected to continue for an extended period it is usual for an amended timetable to be prepared by RfL(I) in consultation with the affected Railway Undertakings.

6.3.3.2 Foreseen Problems

The CCOS Railway Operational Code provides for contingency plans to accommodate changes to the train service which may be expected to result in operational disruption. This may include pre-planned amended timetables that can be uploaded to the industry systems used on the CCOS quickly so that passengers can see what train services will be running on the following day.

6.3.3.3 Unforeseen Problems

Where a problem is unforeseen, but may be expected to result in operational disruption, and there is no contingency plan to cover it, RfL(I) will, under the CCOS Railway Operational Code, consult with affected Railway Undertakings as may be reasonably practicable and determine the most appropriate action to be taken.

6.4 Tools for Train Information and Monitoring

RfL(I) operates a Line Wide Overview Display (LWOD) system that integrates all train running monitoring functions and provides a map-based display of current and historical train running facilities. Data is collected from the signalling system, compared against schedules, and displayed on a track-level map.

The LWOD application records the actual arrival / departure / passing times of trains at specific points in the journey , and assists route look ahead at a strategic level.

The CCOS is displayed in a high degree of detail including route, system alarms and platform screen doors status and condition for each station. Sections of route managed by other infrastructure managers are displayed in a lower resolution.

7 Service Facilities

7.1 Introduction

The service facility statement's objective is to inform applicants, the authorities and other interested parties about service facilities, and the terms of condition for allocation of capacity and use. The document, which covers RfL(I) service facilities only, is available here: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

7.2 Service Facility Overview

RNE (see section 1.7) has published a Common Template for Service Facilities in line with the requirements of the Implementing Regulation. The Common Template is available on RNE's website.

7.3 Service Facilities Managed by the Infrastructure Manager

7.3.1 Common provisions

All provisions described in the sections below are specific to the particular service facility described.

7.3.2 Passenger Stations

7.3.2.1 General Information

RfL(I) is the facility owner of the four RfL(I) Stations (see section 1.1). RfL(I) has appointed the ELTOC to operate the RfL(I) Stations on a day-to-day basis under an operator agreement.

Other Railway Undertakings who want to use an RfL(I) Station (known as beneficiaries) must enter into a Station Access Agreement with RfL(I) (in respect of an RfL(I) Station). Such agreements govern the provision of common station amenities and services by RfL(I), including such matters as the availability of concourses and platforms, non-exclusive staff amenities, cleaning and lighting and train dispatch. Such a Station Access Agreement must be approved by the ORR prior to it being entered into, else it will have no legal effect.

The remaining stations on the CCOS are operated by other parties as follows:

the ELTOC is the facility owner of the ELTOC Station (see section 1.1).
 Further information on the ELTOC Station is available here:
 https://mtrel.co.uk/wp-content/uploads/2023/09/MTREL-Service-Facilities-Statement-September-2023.pdf; and

the LUL Stations (see section 1.1) are owned and operated by LUL. Where an
Applicant requires a Station Usage Agreement in respect of an LUL Station it
should contact LUL directly (see section 1.6.7) for information on the terms of
access and charging arrangements. RfL(I) would also be willing to facilitate a
discussion between the Railway Undertaking and LUL. The usage agreement
will set out the operational arrangements applicable to the operation and use
of that LUL Station.

7.3.2.2 Services

Details of services available at each RfL(I) station are set out in the Station Access Conditions Annexes for that station available here:

 $\underline{\text{https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section}} \ .$

Information on the services is available at the National Rail website.

7.3.2.3 Service Facility Description

Each RfL(I) station is described in the Station Access Conditions Annexes for that station available here: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

A description of the stations is available at the National Rail website.

7.3.2.4 Charges

Details of charges are set out in section 5.3.6 and also in the Station Access Conditions Annexes available here: https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

7.3.2.5 Access Conditions

Please refer to section 3 for information relating to access conditions and also to the RfL(I) Station Access Conditions available here:

https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section.

7.3.2.6 Capacity Allocation

Please refer to section 4 and note the particular constraints in relation to platform edge doors and train lengths detailed in sections 2.3.3 and 2.3.8 respectively.

7.3.3 Freight Terminals

No freight terminals are available on the CCOS.

7.3.4 Marshalling Yards and Train Formation Facilities, including Shunting Facilities

None available on the CCOS.

7.3.5 Storage Sidings

Eight sidings will be available at Plumstead for train stabling. A further three sidings at this location will be restricted to Network Services.

The turn back sidings at Westbourne Park will have no external access and therefore will not be suitable for stabling.

Please refer to the CCOS Sectional Appendix for details or contact RfL(I) for further information at the address set out in section 1.6.1.

Alternatively, the ability to stable rolling stock in specified sidings on NR's network may be granted as part of the access rights under a track access contract with NR.

7.3.6 Maintenance Facilities

The infrastructure maintenance depot for the CCOS is located at Plumstead. This is not a rolling stock maintenance facility.

Alstom Engineering and Services Limited has facilities at Old Oak Common depot (not on the CCOS) which can undertake berthing, light servicing, light and heavy maintenance of train sets which are compatible with Class 345 units. This depot is not part of the CCOS. Please contact Alstom Engineering and Services Limited for further information at the address set out in section 1.6.2 or refer to the Connected Facilities section of the NR website (https://www.networkrail.co.uk/industry-commercial-partners/information-operating-companies/network-statement/).

7.3.7 Other Technical Facilities, including Cleaning and Washing Facilities

None available on the CCOS. Cleaning and washing facilities are available at Old Oak Common Depot (see 7.3.6) and other light maintenance depots connected to the NR network.

7.3.8 Maritime and Inland Port Facilities

None connected to the CCOS.

7.3.9 Relief Facilities

The term 'relief facilities' is undefined within national and European legislation, however it is defined within the RNE's Glossary as "areas, equipments and infrastructure to be used to overcome a disruption". Following any disruptive incident RfL(I) will endeavour to operate the CCOS in accordance with best practice to facilitate the carriage of passengers and goods.

7.3.10 Refuelling Facilities

None available on the CCOS.

7.3.11 Other Facilities - Heathrow Spur

Certain services operated on the CCOS by the ELTOC continue on to Heathrow Airport, via a spur from the NR Great Western Mainline. The final section of the spur from Heathrow Tunnel junction to the airport is owned by Heathrow Airport Limited.

Please contact Heathrow Airport Limited for further information at the address set out in section 1.6.10.

Appendix 1 - Operations, Maintenance and Renewals Charges

Section 5.3.4.2. explains that OMR expenditure incurred by RfL(I) shall be recovered through two charges:

- (a) the Costs Directly Incurred Charge (CDIC); and
- (b) the Fixed Costs Charge (FCC).

The purpose of this appendix is to set out the principles of each of these charges including, at a high level, how they have been calculated.

Cost recovery

The CDIC recovers those OMR costs that are directly incurred as a result of operating the train service (with an appropriate degree of "smoothing" over time to provide for inter-generational equity and stability of charges over time, see further details below). These costs are recovered in accordance with paragraph 1(4) of Schedule 3 of the Rail Regulations 2016.

The FCC will recover those OMR costs that are not directly incurred as a result of operating train services. These costs comprise the long term operating costs of the Crossrail project and will be recovered in accordance with paragraph 3 of Schedule 3 of the Rail Regulations 2016¹².

Taken together, the CDIC and FCC charges will recover the total OMR costs incurred on the CCOS for the expected capacity utilisation.

Basis for calculating the CDIC

The calculation of the CDIC is based on the following steps:

Total OMR costs when the expected number of services is run¹³ - This is the sum of CCOS infrastructure maintenance and renewal expenditure projected by the Crossrail Maintenance Cost Model¹⁴ (CMCM), together with TfL forecasts of CCOS operational costs. The maintenance and renewal costs are projected over a period of 60 years from the commencement of services. Given that the profile of costs is not flat and costs increase significantly in certain years (due to the renewal of significant assets for example) a 60 year annual average of these renewal costs is used for the basis of calculating the charges, together with an annual average of operations and maintenance costs over the period to the first review of charges.

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¹² Long term capital expenditure is recovered through the Investment Recovery Charge (IRC) set out in section 5.3.4.1.

¹³ The expected services are as set out in the concession agreement between RfL and the ELTOC. RfL(I) is not aware at this time of other prospective Railway Undertakings on the CCOS and therefore considers this to be an appropriate assumption.

¹⁴ Owned by Crossrail Ltd and developed by Asset Management Consulting Limited.

- Distinguishing between fixed and directly incurred costs As a second 2 step, it is necessary to split average annual OMR costs between those that are assumed to be directly incurred (in accordance with paragraph 1(4) of Schedule 3 of the Rail Regulations 2016) and those which are not directly incurred or "fixed". Such costs deemed to be directly incurred are recovered through the CDIC with the remainder being assumed to be fixed and as such. deemed long term costs of the project, recovered through the FCC (see below). To make this distinction, a line-by-line review of RfL(I)'s forecast costs was undertaken to calculate total costs incurred in the absence of train movements¹⁵. Such an exercise involved the review of the OMR activities and distinguishing between whether they are assumed to be directly incurred or otherwise. For example, reactive maintenance activities were all assumed to be directly incurred (as they are directly brought about by the passage of trains), whereas activities related to telecommunications equipment were not because the costs to operate, maintain and renew such assets does not vary with traffic¹⁶. In undertaking such a review, due care has been taken to ensure that the cost categorisation is in keeping with the guidance set out in Commission Implementing Regulation (EU) 2015/909, as required by paragraph 1(5) of Schedule 3 of the Rail Regulations 2016. The total costs incurred in the absence of train movements are then subtracted from those projected to be incurred when running the expected number of services to calculate total costs directly incurred.
- Attributing costs to services To determine the CDIC, total costs directly incurred are attributed to different geographical sections of the network (as set out in section 5.3). Each of these different cost allocations is then divided through by the expected number of annual train movements through the specific part of the network to determine the CDIC for that section. This is then used to provide a series of average per movement charges in accordance with paragraph 1(9) of Schedule 3 of the Rail Regulations 2016¹⁷.

Basis for calculating the FCC

The calculation of the FCC is based on the following steps:

- Calculating total costs that are not directly incurred Having distinguished between the activities and costs assumed to be directly incurred or otherwise, as set out above, this results in a total annual figure for OMR costs not directly incurred, or fixed (being the residual of the total costs incurred by RfL(I) for operating train services less the costs assumed to be directly incurred).
- 2 Attributing costs to services To determine the FCC, total costs not directly

¹⁵ Assuming that the assets are maintained in a steady-state such that trains could be accommodated in the future.

¹⁶ In undertaking this analysis RfL(I) has taken a cautious approach so that when it was not clear-cut as to whether an activity was directly incurred or otherwise, the activity was assumed to not be directly incurred.

¹⁷ It is noteworthy that taking this bottom-up approach to determining the CDIC results in a significantly lower charge than would be levied if a short-run marginal cost (SRMC) approach was implemented. Should a SRMC approach be used, we expect that it would result in an over-recovery of costs given the anticipated high capacity utilisation of the network.

incurred are attributed to sections of the infrastructure. These cost attributions are then divided by the expected Train Path utilisation over that section and a series of average per Train Path charges to recover fixed OMR costs incurred by RfL(I) derived.

Relative size of the charges

The line-by-line analysis of RfL(I)'s forecast costs suggest that approximately 46% of the OMR costs are directly incurred. This estimated proportion is considered a realistic assessment given RfL(I)'s cost base for the reasons set out below:

- The relationship between costs and service levels the CCOS is utilised at capacity for peak periods and highly throughout the remainder of operational hours. The volume of services is thus large relative to the size/scope of the asset, meaning that variable costs incurred (i.e. CDIC) will be a relatively large proportion of total costs.
- The nature of the CCOS asset CCOS is an almost entirely subterranean, meaning that relatively few OMR costs are incurred in the state where no services are run (for example, little track maintenance is required as it is shielded from the elements).

Recovery metric and indicative charge format

The CDIC and FCC charges are / will be levied so as to recover costs on a per train movement and per Train Path utilised basis respectively.

RfL(I) proposes these metrics for simplicity and transparency and because only one type of vehicle will be used by the ELTOC for running CCOS services.

However, it may be appropriate to increase the level of granularity in respect of how charges are levied to take into account different rolling stock cleared to run on the CCOS. Therefore, RfL(I) reserves the right to change the way that charges are levied at a later date in the event of such an occurrence being anticipated and would welcome discussions with prospective operators at that time to introduce more suitable price lists.

The charges are set out in a separately published price list (https://tfl.gov.uk/corporate/publications-and-reports/crossrail-central-operating-section).

The charges are, subject to those matters described in section 5.8, fixed in real terms over the initial period to the first review of charges.

The charges are based on forecasts of the cost of operating, maintaining and renewing the CCOS infrastructure.

The first review of charges will take into account how the actual costs and expenses for the initial period differ from the forecast costs and expenses in respect of that period.

The charges above should not necessarily be seen therefore as an indication of those charges that will be in place following the review.

Appendix 2 – Performance Scheme

1 Introduction

As access to the CCOS network requires entry from the NR network, the CCOS performance regime is intended to reflect the regime within Schedule 8 of the model NR track access contract, as far as is practicable. The main differences from the NR Schedule 8 regime are in relation to:

- Granularity of measurement;
- The CCOS regime being reflective only of lateness gained on the CCOS and excludes lateness accrued on other networks; and
- The necessary prioritisation of train service frequency and journey times over running to strict schedule on the CCOS.

This regime is for passenger operators timetabled in the Long Term Plan.

Planned disruption will be the subject of a separate possessions regime (see Appendix 3).

Information about procedures for dispute resolution and appeals relating to the performance scheme is set out in section 1.3.3.

2 Principles

The regime is based upon any additional journey time of a service on the CCOS in excess of the journey time scheduled in the timetable. For example, if a service is scheduled to take 25 minutes to traverse the CCOS (from entry/starting point to exit/terminating point), any time in excess of this in principle forms part of the regime (i.e. 25 minutes and 1 second and above, although see below in relation to the applicable threshold). Any excess time is referred to as Seconds Late (or SL).

The time a service enters or starts its journey on the CCOS will be recorded – it is this aspect which is key to the operation of the performance regime. Whilst service lateness (or early running services) will be measured for all operated services (whether on entry to the CCOS or at the point of origin if on the CCOS), except as set out below, early or late running from another network is disregarded for the purposes of the regime. It is only the journey time of the service on the CCOS which counts.

When a service exits (or terminates within) the CCOS the time will again be recorded. The difference between the entry/starting time recorded and the exit/terminating time will then be calculated and compared with the scheduled difference in entry/starting time and exit/terminating time in the applicable timetable. Any positive variation (delta) in journey time which is greater than the applicable threshold (30 seconds) is then required to be investigated and a Lateness Event (LE) is created on the reporting system.

If a LE arises because a service enters the CCOS from the NR Network at an earlier time than is scheduled in the timetable and RfL(I) takes steps to regulate the service so that it exits the CCOS/terminates on the CCOS at the time which is scheduled in

the timetable (so the journey time is longer than scheduled) neither party is allocated responsibility.

Where a train presents outside normal operating hours, it will not be admitted to the CCOS.

Reliability Events including cancellations or missed station calls will incur a deemed SL delta value and will be recorded as a LE. Specific deemed seconds lateness values will apply for each station missed. However, if a service is cancelled on a network other than the CCOS (and therefore never enters the CCOS) it will not form part of the performance regime for any purpose.

Responsibility for a LE will be investigated and attributed in line with the principles set out in the Delay Attribution Principles and Rules as updated from time to time. Incidents for which RfL(I) is responsible and incidents for which the Railway Undertaking is responsible are then allocated in accordance with the terms of the Track Access Contract. Please see paragraphs 6.2 and 6.3 of schedule 8 of the template Track Access Contract for more information.

Performance Regime payment rates will be based on the standard industry approach to the estimation of demand elasticity¹⁸ impact of the SL delta on the respective Railway Undertaking. A Marginal Revenue Effect (MRE) will be derived which will require each Railway Undertaking to provide appropriately validated prospective revenue information.

Payment rates may vary dependent upon Peak and Off Peak periods (based on throughput of trains per hour) and by train service group.

To the extent an LE attributed to RfL(I) causes late presentation of a train off the CCOS network to the NR network the Railway Undertaking will be compensated for any payment made under the performance regime in its access contract with NR.

3 Application

For each LE, investigation action will be initially undertaken by staff at the Route Control Centre (RCC) who will interrogate the CCOS Performance Monitoring System (PMS) to locate any time losses at and between stations.

Where the RCC finds RfL(I) to be responsible, a LE will be attributed against it.

Only after thorough investigation where the RCC cannot find issue with RfL(I) will the LE be attributed to the Railway Undertaking for it to investigate. Other incidents (for which neither the RfL(I) nor the Railway Undertaking will be allocated responsibility) are described in paragraph 6.4 of schedule 8 of the template Track Access Contract.

need to be determined through a new study.

¹⁸ Demand elasticity for UK National Rail operations is calculated using the principles of the Passenger Demand Forecasting Handbook (PDFH) published by the Rail Delivery Group. PDFH does not yet recognise the difference in elasticities anticipated between current suburban markets and those of intensive cross-London services that will be operated by both Thameslink and Crossrail. These values will

Attribution to the Railway Undertaking may be challenged under the process outlined in the CCOS Network Code (which is incorporated into each Track Access Contract) within two working days.

RfL(I) will pay the cost of its average SL delta above a benchmark (Performance Point). The Performance Point will be based on a reasonable expectation of RfL(I)'s contribution to measured performance, having regard to the outputs noted in section 3.1.

The Railway Undertaking will pay a cost for its average SL delta based on the cost of that SL delta for other Railway Undertakings above a benchmark (Performance Point). The performance point will be based on a reasonable expectation of the Railway Undertaking's contribution to measured performance (having regard to the outputs noted in section 2.1).

The Railway Undertaking will pay this amount to RfL(I) who will pass on to the impacted Railway Undertakings. Akin to the NR 'star' model, the regime will be calibrated to be financially neutral based on the expected performance.

TfL expects that it would not take a substantial negative deviation from the performance benchmark to cause significant problems for CCOS operations more widely. Therefore, TfL proposes to establish a separate "Special Measures" regime that could come into force if a Railway Undertaking or RfL(I) performs at a level which breaches a pre-determined "lower bound" of performance. Such a regime would be analogous to NR's Sustained Poor Performance (SPP) regime where once a lower bound of performance is breached, affected parties may claim for incremental "actual losses" if payments under the liquidated sums regime exceed a given amount in any two consecutive Periods or any four Periods in any consecutive rolling period of thirteen Periods.

SPP may lead to special measures being applied²¹. Such measures may, in the case of a Railway Undertaking, include temporary suspension of access pending of implementation of remedial plans.

The CCOS signalling system will pass movement data to both the Crossrail Performance Monitoring System (PMS) and to the NR train describer system (which feeds NR's TRUST DA system and will be used to feed NR charging processes). PMS data will be used by the infrastructure managers on the Crossrail route to improve end to end performance across the wider Crossrail network.

¹⁹ The lower bound of performance will be established during calibration of the regime.

²⁰ When applying the SPP regime it is necessary to "net off" standard revenues impacts captured under the liquidated sums regime from payments made under the special measures framework to ensure no "double counting" takes place. Failure to do so could make the performance regime financially non-neutral and/or result in windfall gains/losses to industry parties.

²¹ In contrast to the regime set out by NR, TfL propose that SPP applies to both Railway Undertakings and RfL(I). This means both Railway Undertakings and RfL(I) will be subject to a "lower bound" of performance which, if breached, will mean that the special measures regime comes into force. In addition, the poor performing party (Railway Undertaking or RfL(I)) will be contractually obliged to put a clear mitigation plan in place to tackle significant poor performance, to remedy any problems going forward.

4 Calculation

RfL(I) payment for a service group for a Period will be calculated as:

- RfL(I)'s performance benchmark for that service group; less
- the weighted average seconds late for that service group attributable to RfL(I);
 and then multiplied by
- the busyness factor; and then multiplied by
- the payment rate for RfL(I).

The busyness factor is the total number of trains scheduled for the Period due to pass a particular monitoring point.

The Railway Undertaking payment for a service group for a Period will be calculated as:

- the Railway Undertaking's performance benchmark for that service group; less
- the weighted average seconds late for that service group attributable to the Railway Undertaking; and then multiplied by
- the busyness factor; and then multiplied by
- the payment rate for the Railway Undertaking.

The busyness factor is the total number of trains scheduled for the Period due to pass a particular monitoring point.

5 Review

The performance benchmarks for each service group and the payment rates (both for RfL(I) and the Railway Undertaking) will be reviewed and, if appropriate, recalibrated / amended 26 periods after commencement of revenue earning passenger services from/to the NR network in the West to/from the NR network in the East via the CCOS²² (and coming into effect the following 1st April) or when a "material performance change" occurs.

A "material performance change" includes a significant physical modification to the CCOS, a physical modification due to an inherent defect in the construction of the CCOS, an increase or decrease of not less than ten per cent. (10%) of timetabled train movements on the CCOS in any hour, a significant change in the performance and reliability of a Railway Undertaking's rolling stock, a Track Access Contract is entered into in respect of the CCOS which is material to the CCOS performance regime and a material anticipated change in the performance of the NR Network which impacts or is reasonably expected to impact on the interfaces between the CCOS and the NR Network.

Aside from a "material performance change", the template Track Access Contract contains provisions whereby the above performance regime inputs will be reviewed with the same frequency as the periodic review of charges referred to in section

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²² On the basis of the assumed date in section 2.2.2 the proposed changes would be effective 1st April 2026.

5.2.2.

This regime is predicated on the fundamental ability to always pass trains through the CCOS how-so-ever late or early they present (with the basis of the regime being the number of seconds spent on the CCOS in excess of the scheduled number). If at any stage this core assumption is found not to hold in practice, RfL(I) will need to consider and consult on an alternative regime.

6 Outline Process for Regime Calibration

- 1 Establish the baseline performance of the system.
- 2 Establish the revenue of the operator and the elasticity of that revenue.
- 3 Establish the cost of the elasticity of the performance beyond the baseline calculated in 1 above.
- 4 Set the Railway Undertaking and RfL(I) Performance Points appropriate to 3 with regard to the anticipated contribution of each party to CCOS performance.

Appendix 3 – Possessions Regime

Possessions on the CCOS will be undertaken largely in "white periods"²³. However, RfL(I) expects that there may be a need for Possessions that require a restriction of the use of the entire CCOS or specific sections of it during normal service periods.

RfL(I) will be given a "Possessions Allowance" of 104 hours²⁴ over the year form 1st April to 31st March within which to undertake necessary possessions inside of normal service periods. The proposed utilisation of this allowance will be set out in the CCOS Engineering Access Statement for the relevant year.

If the duration of a possession undertaken inside normal service periods exceeds the utilisation of the Possessions Allowance (as set out in the CCOS Engineering Access Statement) RfL(I) recognises that this could mean Railway Undertakings may incur financial losses.

In such a circumstance Railway Undertakings will be able to enter a negotiation process with RfL(I) to claim for compensation based on actual incremental costs incurred and demonstrable revenue losses suffered. These losses would be those incurred only for the extra hours a Possession is undertaken over and above the Possessions Allowance and could encompass lost passenger revenues and/or extra costs incurred by the Railway Undertaking (e.g. the costs of replacement bus service provision).

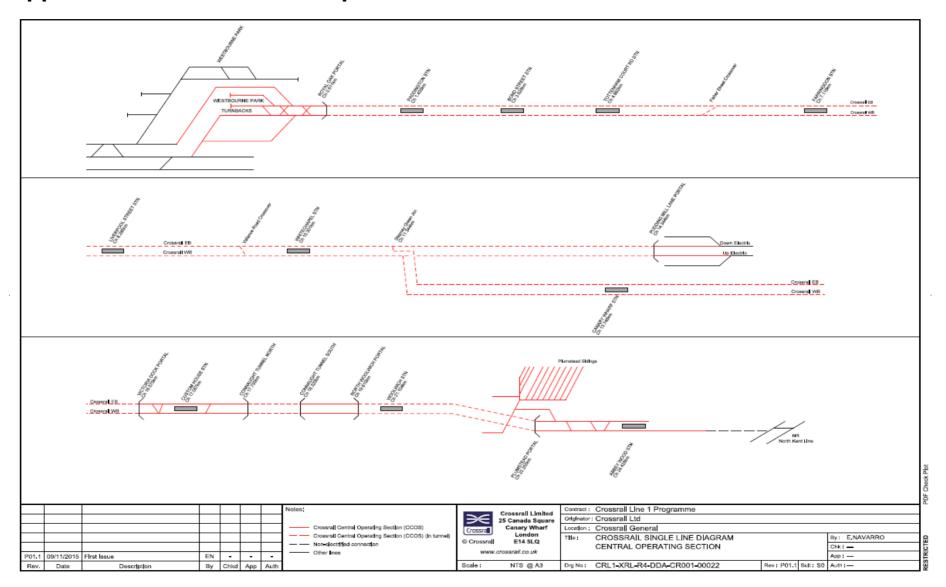
If RfL(I) gives notice of a Possession any later than 10pm the evening before the day of the proposed Possession the CCOS performance scheme shall apply (see Appendix 2).

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²³ A white period is a time when no trains are timetabled to run on a particular section of line (to allow preplanned engineering works). This will vary by CCOS route section but will be approximately between 00.30 and 05.30.

²⁴ This quantum is consistent with the requirements established by the Sponsors at the outset of the Crossrail project which informed the infrastructure design and detailed specification.

Appendix 4 - CCOS Route Map



Appendix 5 – Timetable Calendar (December 2024 and May 2025)

Timetable Development Dates	Party	Principal Change	Subsidiary Change
Development of Rules			
D-64 Consultation on draft CCOS Timetable Planning Rules and Engineering Statement begins Proposed Changes to the Rules	RfL(I)	22.09.23	23.02.24
D-60 End of Consultation on Rules		20.10.23	22.03.24
D-59 Draft Rules published	RfL(I)	27.10.23	29.03.24
D-54 Responses to Draft Rules		01.12.23	03.05.24
D-54 to D-44 RfL(I) review of responses	RfL(I)		
D-44 RfL(I) publishes Final Rules	RfL(I)	09.02.24	12.07.24
D-41 End of Appeal Period for Final Rules		01.03.24	02.08.24
Initial Consultation Period			
D-64 Publication of draft Calendar of Events for CCOS	RfL(I)	22.09.23	23.02.24
D-55 Notification by Timetable Participants of major timetable changes		24.11.23	26.04.24
D-55 Process begins of developing the New Working Timetable by working with Railway Undertakings to understand their aspirations for changes to their services	NR (on behalf of RfL(I))	24.11.23	26.04.24

D-54 Publication of final Calendar of Events for CCOS	RfL(I)	01.12.23	03.05.24
D-45 Copy of Prior Working Timetable to Timetable Participants	NR (on behalf of RfL(I))	02.02.24	05.07.24
D-40 Priority Date		08.03.24	11.08.24
Timetable Preparation Period			
D-40 Start of Timetable Preparation Period	NR (on behalf of RfL(I))	08.03.24	09.08.24
D-26 Publication of New Working Timetable	NR (on behalf of RfL(I))	14.06.24	15.11.24
D-22 End of appeal period for New Working Timetable		12.07.24	13.12.24
D-0 Timetable Commencement Date		15.12.24	18.05.25
Timetable end date		17.05.25	14.12.25

Appendix 6 – Investment Recovery Charge (Potential application)

Purpose of the Investment Recovery Charge (IRC)

The purpose of the IRC will be to recover publicly funded capital costs of the CCOS in accordance with paragraph 3 of schedule 3 of the Rail Regulations 2016.

The Sponsors of the Crossrail project sought confirmation from the ORR before substantial inception that a charge could be levied to recover up to the publicly funded costs of the project.

In November 2008 the ORR issued a Regulatory Statement²⁵ in relation to Crossrail that stated "we agree in principle ... that the infrastructure manager would be entitled to set charges based on the long term costs of the project".

RfL(I)'s proposed IRC will recover a proportion of the publicly funded costs of the CCOS.

 $^{^{25} \ \}underline{\text{http://orr.gov.uk/}} \ \ \underline{\text{data/assets/pdf_file/0017/10745/crossrail-reg-statmnt-131108.pdf}}$