COUNTER CODE OF PRACTICE:
RELEASE 5

July 2017

COUNTER

CONTENTS

The Code of Practice is also available to view on the COUNTER website https://www.project-counter.org/ as an interactive code. The online version is the version of record for Release 5 of the Code of Practice.

ABSTRACT

COUNTER's library and content provider members have contributed to the development of Release 5 (R5) of the COUNTER Code of Practice.

The Code of Practice enables content providers to produce consistent, comparable, and credible usage data for their online content. This allows librarians and other interested parties to compare the usage data they receive, and to understand and demonstrate the value of the electronic resources to which they subscribe.

R5 will become the current Code of Practice and the requirement for COUNTER compliance effective January of 2019.

CONVENTIONS

This Code of Practice is implemented using the following convention:

The keywords "MUST", "MUST NOT", "REQUIRED", "RECOMMENDED", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119.

Note that the force of these words is modified by the requirement level of the document in which they are used.

1. **"MUST" (or "REQUIRED") means that the definition is an absolute requirement of the specification.**

2. **"MUST NOT" means that the definition is an absolute prohibition of the specification.**

3. **"RECOMMENDED" means that there may be valid reasons in certain circumstances to ignore a particular item, but the full implications should be understood and carefully weighed before choosing a different course.**

4. **"NOT RECOMMENDED" means that there may be valid reasons in certain circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.**

Content providers implementing the Code of Practice who feel they have a valid disagreement with a requirement of the code are requested to present their case in writing to the COUNTER Project Director and ask for clarification on interpretation of the code.

Terms appearing in *italics* represent variables that will be replaced with appropriate values at implementation time, for example "*Error_Number* : *Error_Description*" might resolve to "3040 : Partial Usage Available".

1. INTRODUCTION

Since its inception in 2002, COUNTER has been focused on providing a code of practice that helps ensure librarians have access to consistent, comparable, and credible usage reporting for their online scholarly information. COUNTER serves librarians, content providers, and others by facilitating the recording and exchange of online usage statistics. The COUNTER Code of Practice provides guidance on data elements to be measured and definitions of these data elements, as well as guidelines for output report content and formatting and requirements for data processing and auditing. To have their usage statistics and reports designated COUNTER compliant, content providers MUST provide usage statistics that conform to the current Code of Practice.

1.1 GENERAL INFORMATION

1.1.1 Purpose
The purpose of the COUNTER Code of Practice is to facilitate the recording, exchange, and interpretation of online usage data by establishing open international standards and protocols for the provision of content-provider-generated usage statistics that are consistent, comparable, and credible.

1.1.2 Scope
This COUNTER Code of Practice provides a framework for the recording and exchange of online usage statistics for the major categories of e-resources (journals, databases, books, reference works, and multimedia databases) at an international level. In doing so, it covers the following areas: data elements to be measured, definitions of these data elements, content and format of usage reports, requirements for data processing, requirements for auditing, and guidelines to avoid duplicate counting.

1.1.3 Application
COUNTER is designed for librarians, content providers, and others who require reliable online usage statistics. The guidelines provided by this Code of Practice enable librarians to compare statistics from different platforms, to make better-informed purchasing decisions, and to plan more effectively. COUNTER also provides content providers with the detailed specifications they must follow to generate data in a format useful to their customers, to compare the relative usage of different delivery channels, and to learn more about online usage patterns. COUNTER also provides guidance to others interested in information about online usage statistics.

1.1.4 Strategy

COUNTER provides an open Code of Practice that evolves in response to the demands of the international library and content provider communities. The Code of Practice is continually under review; feedback on its scope and application are actively sought from all interested parties. See Section 12 below.

1.1.5 Governance

The COUNTER Code of Practice is owned and developed by Counter Online Metrics (COUNTER), a non-profit distributing company registered in England. A Board of Directors governs Counter Online Metrics. An Executive Committee reports to the Board, and the day-to-day management of COUNTER is the responsibility of the Project Director.

1.1.6 Definitions

This Code of Practice provides definitions of data elements and other terms that are relevant, not only to the usage reports specified in Release 5 (R5), but also to other reports that content providers may wish to generate. Every effort has been made to use existing ISO, NISO, etc. definitions where appropriate, and these sources are cited (see Appendix A).

1.1.7 Versions

The COUNTER Code of Practice will be extended and upgraded as necessary based on input from the communities it serves. Each new version will be made available as a numbered release on the COUNTER website; users will be alerted to its availability. R5 of the Code of Practice replaces Release 4 (R4) on 01-Jan-2019. After this date, only those content providers compliant with R5 will be deemed compliant with the Code of Practice.

COUNTER R5 introduces a continuous maintenance process (see Section 12 below) that will allow the Code of Practice to evolve over time, minimizing the need for major version changes.

1.1.8 Auditing and COUNTER Compliance

An independent annual audit is REQUIRED of each content provider's reports and processes to certify that they are COUNTER compliant. The auditing process is designed to be simple, straightforward, and not unduly burdensome or costly to the content provider while providing reassurance to customers of the reliability of the COUNTER usage data. See Section 9 below and Appendix E for more details.

1.1.9 Relationship to other Standards, Protocols, and Codes

The COUNTER Code of Practice builds on several existing industry initiatives and standards that address content provider-based online performance measures. Where appropriate, definitions of data elements and other terms from these sources have been used in this Code of Practice, and these are identified in Appendix A.

1.1.10 Making Comments on the Code of Practice

The COUNTER Executive Committee welcomes comments on the Code of Practice (see Section 12 below).

1.2 CHANGES FROM COUNTER R4

Changes in the nature of online content and how it is accessed have resulted in the COUNTER Code of Practice evolving in an attempt to accommodate those changes. This evolution resulted in some ambiguities and, in some cases, conflicts and confusions within the Code of Practice. R5 of the COUNTER Code of Practice is focused on improving the clarity, consistency, and comparability of usage reporting.

1.2.1 List of Reports

R5 of the COUNTER Code of Practice reduces the overall number of reports by replacing many of the special-purpose reports that are seldom used with a small number of flexible, generic reports. All COUNTER R4 reports have either been renamed or eliminated in favour of other COUNTER R5 report options.

See Appendix B, Section 1.1 for more details.

1.2.2 Report Format

The Standardized Usage Statistics Harvesting Initiative (SUSHI) protocol is designed to simplify the gathering of usage statistics by librarians, and SUSHI support is mandatory for compliance with R5. R5 adopts the latest SUSHI format, JavaScript Object Notation (JSON), developed for lightweight data-interchange. Not only is this format is easy for humans to read and write, but it is easy for machines to parse and generate. See Section 8 below.

With R5, all COUNTER reports are structured the same way to ensure consistency, not only between reports, but also between the JSON and tabular versions of the reports. Now, all reports share the same format for the header, the report body is derived from the same set of element names, total rows have been eliminated, and data values are consistent between the JSON and tabular version. R5 also addresses the problems of terminology and report layouts varying from report to report, as well as SUSHI and tabular versions of the same report producing different results while still being compliant.

1.2.3 Metric Types

R5 strives for simplicity and clarity by reducing the number of metric types and standardizing them across all reports, as applicable. With R4, book reports had metric types that could be considered different from those for journal reports and those for attributes such as mobile usage, usage by format, etc. Most R4 metric types have either been renamed or replaced in R5.

See Appendix B, Section B.1.2, for a table showing the R4 metric types and their R5 state.

1.2.4 New Elements and Attributes Introduced

With R4 the nature of the usage sometimes had to be inferred based on the name of the report. To provide more consistent and comparable reporting, R5 introduces some additional attributes that content providers can use to create breakdowns and summaries of usage.

"Access_Type"	Used to track usage of content that is either open access or controlled (requires a license)
"Access_Method"	Used to track if the purpose of the access was for regular use or for text and data mining (TDM). This attribute allows TDM usage to be excluded from Standard Views and reported on separately.
"Data_Type"	Identifies the type of content usage being reported on. Expanded to include additional data types, including article, book, book segment, database, dataset, journal, multimedia, newspaper or newsletter, platform, other, repository item, report, and thesis or dissertation.
"Publisher_ID"	Introduced to improve matching and reporting by publisher
"Section_Type"	Identifies the type of section that was accessed by the user, e.g. article, book, chapter, or other Section. Used primarily for reporting on book usage where content is delivered by section.
"YOP"	Year of publication, now as a single element, simplifies reporting by content age.

The above items are covered in more detail in Section 3 below as well as in Appendix B, Section B.1.3.

2. OVERVIEW

This section provides an overview of the scope of the COUNTER Code of Practice.

Section 3 Technical Implementation of COUNTER Reports introduces the REQUIRED reports, describes the common format shared by all COUNTER reports, and defines the COUNTER report attributes and their values.

Section 4 COUNTER Reports provides detailed specifications for each COUNTER Report. Use this section to understand what elements are included in each report.

Section 5 Delivery of COUNTER Reports outlines the options a content provider MUST provide to enable customers to access their reports.

Section 6 Logging Usage describes various options used for logging usage transactions.

Section 7 Processing Rules for Underlying COUNTER Data discusses topics such as which return codes to count, double-click filtering, calculating unique items and unique titles accessed in a session, classifying searches (regular, federated, automated, or platform), robots and internet crawlers, tools that cause bulk downloads, and text and data mining.

Section 8 SUSHI for Automated Report Harvesting offers a more in-depth description of the REQUIRED SUSHI support.

Section 9 Audit provides the requirements for the COUNTER audit.

Section 10 Other Compliance Topics talks about license language to require COUNTER usage statistics, confidentiality of data, and supporting consortia in their need to obtain usage data for their members.

Section 11 Extending the Code of Practice offers suggestions for content providers who may want to create custom reports or include additional elements and attribute values in COUNTER reports.

Section 12 Continuous Maintenance outlines the procedures that have been put in place to allow the Code of Practice to be amended and expanded on an incremental basis in a controlled and managed way.

3. TECHNICAL SPECIFICATIONS FOR COUNTER REPORTS

3.1 COUNTER REPORTS FOR LIBRARIES

Reports for R5 consist of four Master Reports that allow the librarian to filter and configure to create customized Views of their usage data. R5 also specifies Standard Views (pre-set filters/configuration).

To achieve compliance, a content provider MUST offer the Master Reports and Standard Views that are applicable to their host types.

3.1.1 Master Reports

Master Reports include all relevant metrics and attributes. They are intended to be customizable through the application of filters and other configuration options, allowing librarians to create reports specific to their needs. The four Master Reports are shown in Table 3.a (below) along with the "Report ID", "Report Name", and "Host Types" required for these reports. See Section 3.3.1 below for details on "Host Types".

Table 3.a: Master Reports

Report_ID	Report_Name	Details	Host Types REQUIRED to Provide
PR	Platform Master Report	A customizable report summarizing activity across a content provider's platforms that allows the user to apply filters and select configuration options	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Repository" "Data Repository" "Scholarly Collaboration Network"
DR	Database Master Report	A customizable report detailing activity by database that allows the user to apply filters and select configuration options	"A&I Database" "Aggregated Full Content" "Multimedia (databases)"

TR	Title Master Report	A customizable report detailing activity at the title level (journal, book, etc.) that allows the user to apply filters and select configuration options	"eBook" "E-Journal" "Aggregated Full Content"
IR	Item Master Report	A granular customizable report showing activity at the level of the item (article, chapter, media object, etc.) that allows the user to apply filters and select configuration options	"Repository" "Multimedia"

Figure 3.a (below) provides an example of how the user interface could look. The user will be presented with an interface that allows them to select usage dates, one or more metric types, data types, access types, etc. and indicate if the filter columns are to be included. Including the column will cause usage to be broken out by individual values for the selected filter, whereas not including the column will result in usage being summarized for the selected filter.

Figure 3.a: Example of a user interface

3.1.2 Standard Views

The goal of Standard Views is to provide a set of pre-filtered views of the Master Reports covering the most common set of library needs. Report IDs for Standard Views are derived from the Report ID of the Master Report that they are based on. The format is "*MasterReportID_ViewID*".

3.1.2.1 Platform Usage Standard Views

The Platform Usage Standard Views are derived from the Platform Master Report and provide a summary of activity on a given platform to support the evaluation of platforms and to provide high-level statistical data to support surveys and reporting to funders.

Table 3.b (below): Platform Usage Standard Views

Report_ID	Report_Name	Details	Host Types
PR_P1	Platform Usage	Platform-level usage summarized by metric type	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Repository" "Data Repository" "Scholarly Collaboration Network"

See Section 4.1 below for details on Platform Usage Reports.

3.1.2.2 Database Usage Standard Views

The Database Usage Standard Views support the evaluation of the value of a given database of resources (e.g. a full text database, an A&I database, or a multimedia collection).

Table 3.c (below): Database Usage Standard Views

Report_ID	Report_Name	Details	Host Types
DR_D1	Database Search and Item Usage	Reports on key search and request metrics needed to evaluate a database	"A&I Database" "Aggregated Full Content" "Multimedia (databases)"
DR_D2	Database Access Denied	Reports on Access Denied activity for databases where users were denied access because simultaneous-user licenses were exceeded or their institution did not have a license for the database	"A&I Database" "Aggregated Full Content" "Multimedia (databases)"

See Section 4.2 below for details on Database Usage Reports.

3.1.2.3 Title Usage Standard Views

Title Usage Standard Views are used to support the evaluation of the value of a given serial (e.g. journal, magazine, newspaper) or monograph (e.g. book, eBook, textbook, reference work) title.

Table 3.d (below): Title Usage Standard Views

Report_ID	Report_Name	Details	Host Types
TR_B1	Book Requests (excluding "OA_Gold")	Reports on full text activity for non-Gold open access books as "Total_Item_Requests" and "Unique_Title_Requests". The "Unique_Title_Requests" provides comparable usage across book platforms. The "Total_Item_Requests" shows overall activity; however, numbers between sites will vary significantly based on how the content is delivered (e.g. delivered as a complete book or by chapter).	"eBook" "Aggregated Full Content"
TR_B2	Book Access Denied	Reports on access-denied activity for books where users were denied access because simultaneous-user licenseswere exceeded or their institution did not have a license for the book	"eBook"
TR_B3	Book Usage by Access Type	Reports on book usage showing all applicable metric types broken down by Access_Type	"eBook" "Aggregated Full Content"
TR_J1	Journal Requests (excluding "OA_Gold")	Reports on usage of non-Gold open access journal content as "Total_Item_Requests" and "Unique_Item_Requests". The "Unique_Item_Requests" shows comparable usage across journal platform by reducing the inflationary effect that occurs when and HTML full text automatically displays and the user then accesses the PDF version. The "Total_Item_Requests" shows overall activity.	"E-Journal" "Aggregated Full Content"
TR_J2	Journal Access Denied	Reports on access-denied activity for journal content where users were denied access because simultaneous-user licences were exceeded or their institution did not have a license for the title	"E-Journal"
TR_J3	Journal Usage by Access Type	Reports on usage of journal content for all metric types broken down by Access Type	"E-Journal" "Aggregated Full Content"
TR_J4	Journal Requests by YOP (excluding "OA_Gold")	Breaks down the usage of non-Gold open access journal content by year of publication (YOP) providing counts for the metric types "Total_Item_Requests" and "Unique_Item_Requests". Provides the details necessary to analyze usage of content in backfiles or covered by perpetual access agreement. Note: COUNTER reports do not provide access-model or perpetual-access rights details.	"E-Journal" "Aggregated Full Content"

See Section 4.3 below for details on Title Usage Standard Views.

3.1.2.4 Item Usage Standard Views

The Standard Views for item-level reporting are designed to support the most common reporting needs. The Standard View for "Repositories" ("Journal Article Requests") provides insight into the usage of individual journal articles. The Standard View for "Multimedia" ("Multimedia Item Requests") allows evaluation of "Multimedia" at the title level.

Table 3.e (below): Item Usage Standard Views

Report_ID	Report_Name	Details	Host Types
IR_A1	Journal Article Requests	Reports on journal article requests at the article level. This report is limited to content with a "Data_Type" of journal, "Section_Type" of article, and metric types of "Total_Item_Requests" and "Unique_Item_Requests".	"Repository"
IR_M1	Multimedia Item Requests	Reports on multimedia requests at the item level	"Multimedia"

See Section 4.4 below for details on Item Usage Reports.

3.2 FORMATS FOR COUNTER REPORTS

R5 reports can be delivered in tabular form or as machine-readable data (JSON) via SUSHI. The tabular form MUST be either Excel or a tab-separated-value Unicode text file. The machine-readable format MUST comply with the COUNTER_SUSHI API Specification (See Section 8 below).

All COUNTER Reports have the same layout and structure. Figure 3.b (below) provides an example of the "Journal Requests" View. (The example excludes "OA_Gold", which means all articles are open access because an article processing charge (APC) has been paid). Figure 3.c (below) shows the layout for tabular reports, which will be the focus of the discussions throughout this document. Note that the COUNTER_SUSHI API Specification includes the same elements with the same or similar names; therefore, understanding the tabular reports translates to an understanding of what is REQUIRED in reports retrieved via SUSHI.

Figure 3.b: Journal Requests sample view (excluding "OA_Gold")

All COUNTER reports have a header. In tabular reports, the header is separated from the body with a blank row (to facilitate sorting and filtering in Excel). Beneath that is the body of the report with column headings. The contents of the body will vary by report. Figure 3.c (above) identifies the different kinds of information you may find in the report and the relative positioning of this information. All of this is discussed in more detail below.

Figure 3.c: Standard View Layout for COUNTER Reports

3.2.1 Report Header

The first 12 rows of a tabular COUNTER report contain the header, and the 13th row is always blank. The header information is presented as a series of name-value pairs, with the names appearing in Column A and the corresponding values appearing in Column B. All tabular COUNTER reports have the same names in Column A. Column B entries will vary by report.

Figure 3.d: Common Report Header Information

Figure 3.d (above) shows the layout of the common header. The 12 elements in Column A and the values in Column B are discussed in more detail in the table below. Note that the element names (Column B) MUST appear in the COUNTER report exactly as they are shown here. Capitalization, spelling, and punctuation MUST match exactly.

Table 3.e (below): COUNTER Report Header Elements

Element Name	Description of value to provide	Example
"Report_Name"	The name of the report as it appears in Sections 3.1 and 3.2 of this document	Journal Requests (excluding "OA_Gold")
"Report_ID"	The unique identifier for the reports that is used in SUSHI requests	TR_J1
"Release"	The COUNTER Release this report complies with	5
"Institution_Name"	Name of the institution the usage in the report represents	Mt. Laurel University

"Institution_ID"	A series of identifiers that represent the institution in the format of "*type*:*value*". Include multiple identifiers by separating with a semicolon-space ("; "). Identifier types include "isni", "orcid", "proprietary…" See the COUNTER_SUSHI API Specification for the enumeration of all possible identifier types permitted.	isni=0000000419369078 isni=0000000419369078; pubsiteA=PrncU
"Metric_Types"	A semicolon-space delimited list of metric types requested for this report. Note that even though a metric type was requested, it might not be included in the body of the report if no report items had usage of that type.	"Unique_Item_Investigations" "Unique_Item_Requests"
"Report_Filters"	A series of zero or more report filters applied on the reported usage, excluding metric types (which appear in a separate row). Typically, a report filter affects the amount of usage reported. Entries appear in the form of "*filter_Name=filter_Value*" with multiple filter name-value pairs separated with a semicolon-space ("; ") and multiple filter values for a single filter name separated by the vertical pipe ("|") character.	"Access_Type=Controlled" "Access_Method=Regular"
"Report_Attributes"	A series of zero or more report attributes applied to the report. Typically, a report attribute affects how the usage is presented but does not change the numbers. Entries appear in the form of "*attribute_name=attribute_value*" with multiple attribute name-value pairs separated with a semicolon-space ("; ") and multiple attribute values for a single attribute name separated by the vertical pipe ("|") character.	"Attributes_To_Show=Access_Type"

"Exceptions"	An indication of some difference between the usage that was created and the usage that is being presented in the report. The format for the exception values are: *"Error_No*: *Exception_Description"* (*Data*). The "Error Number" and "Exception_Description" MUST match values provided in Table F.1 of Appendix F. The data is OPTIONAL. Note that for tabular reports, only the limited set of exceptions where usage is returned will apply.	3040: Partial Data Returned (request was for 2016-01-01 to 2016-12-31; however, usage is only available to 2016-08-30). 3040: Partial Data Returned
"Reporting_Period"	The date range for the usage represented in the report, in the form of: "begin_date=yyyy-mm-dd"; "end_date=yyyy-mm-dd".	"begin_date=2016-01-01"; "end_date=2016-08-30"
"Created"	The date the usage was prepared, in the form of "yyyy-mm-dd"	"2016-10-11"
"Created_By"	The name of the organization or system that created the COUNTER report	EBSCO Information Services 360 COUNTER
(blank row)	Row 13 MUST be blank	

3.2.2 Report Body

Figures 3b and 3c (above) show the body of the COUNTER reports containing an extensive array of data elements. Not all reports will include all elements. When formatting a report, maintain the order of elements described below, but only include those elements relevant to that report. Where practical, the discussion below will provide guidance as to which reports an element may be included in. See Section 4 below for an extensive mapping of elements to reports.

Report Item Description

Every COUNTER report will have columns that describe its report items.

Table 3.f (below): Elements that Describe the Report Item

Element Name	Description	Reports	Examples
"Database"	Name of database for which usage is being reported. Applies only to Database Reports.	DR DR_D1, DR_D2	MEDLINE
"Title"	Name of the book or journal for which usage is being reported. Applies only to Title Reports	TR TR_J1, TR_J2 TR_B1, TR_B2	Journal of Economics, Gone with the Wind

"Item"	Name of the article, book chapter, multimedia work, or repository Item for which usage is being reported. Applies only to item reports.	IR	CRISPR gene-editing tested in a person for the first time
"Publisher"	Name of the publisher of the content item. Note that when the content item is a database, the publisher would be the organization that creates that database.	All except Platform reports (PR, PR_P1)	Taylor & Francis, APA
"Publisher_ID"	A unique identifier for the publisher in the form of "*type*: *identifier*". The list of acceptable identifier types can be found in the COUNTER_SUSHI API Specification. When multiple identifiers are available for a given publisher, include all values separate with semicolon-space "; " but include only one per type.	All except Platform reports (PR, PR_P1)	isni=1234123412341234 EBSCOhost=PubX

Platform

The next column in the report identifies the platform where the activity happened.

Table 3.g (below): Elements that Identify the Platform

Element Name	Description	Reports	Examples
"Platform"	Identifies the platform/content host where the activity took place. Note that in cases where individual titles or groups of content have their own branded user experience but reside on a common host, the identity of the underlying common host MUST be used as the "Platform".	All	EBSCOhost, ProQuest, ScienceDirect

Report Item Identifiers

The item being reported on is further identified by the columns to the right of the platform.

Table 3.h (below): Elements for Report Item Identifiers

Element Name	Description	Reports	Examples
"Authors"	Author of the work usage is being reported on	IR	
"Publication_Date"	Date of publication for the work	IR	
"Article_Version"	ALPSP/NISO code indicating the version of the parent work. Possible values are "Accepted Manuscript", "Version of Record", "Corrected Version of Record", and "Enhanced Version of Record".	IR	"VoR"
"DOI"	Digital object identifier for the item being reported on	TR, IR TR_B1, TR_B2, TR_J1, TR_J2	
"Proprietary_ID"	An ID assigned by the content provider for the item being reported on. Format as "*namespace=value*" where the namespace is the platform ID of the host which assigned the proprietary identifier.	DR, TR, IR TR_B1, TR_B2, DR_D1, DR_D2, TR_J1, TR_J2	"publisherA=jnrlCode123"
"ISBN"	International Standard Book Number	TR, IR TR_B1, TR_B2	
"Print_ISSN"	International Standard Serial Number assigned to the print instance of a serial publication	TR, IR TR_B1, TR_B2, TR_J1, TR_J2	
"Online_ISSN"	International Standard Serial Number assigned to the online instance of a serial publication	TR, IR TR_B1, TR_B2, TR_J1, TR_J2	
"URI"	Universal Resource Identifier	TR, IR TR_B1, TR_B2, TR_J1, TR_J2	

Parent Item Description and Identifiers

When reporting usage on content items like articles and book chapters, it is often desirable to identify the item's parent item, such as the "Journal" or book it is part of. This next grouping of columns identifies the parents and is used by a small subset of reports.

Table 3.i (below): Elements that describe a Parent Item

Element Name	Description	Reports	Examples
"Parent_Title"	Title of the parent item	IR	The Serials Librarian
"Parent_Authors"	Author of the parent work	IR	
"Parent_Publication_Date"	Date of publication for the parent work	IR	
"Parent_Article_Version"	ALPSP/NISO code indicating the version of the parent work. Possible values are "Accepted Manuscript", "Version of Record", "Corrected Version of Record", and "Enhanced Version of Record".	IR	"VoR"
"Parent_Data_Type"	Identifies the nature of the parent	IR	"Journal"
"Parent_DOI"	DOI assigned to the parent item	IR	
"Parent_Proprietary_ID"	A proprietary identified that identifies the parent item in the format of "*namespace=value*", where *namespace* is a unique identifier of the site that assigned the identifier value.	IR	"TandF=wser20"
"Parent_ISBN"	ISBN of the parent item	IR	
"Parent_Print_ISSN"	Print ISSN assigned to the parent item	IR	0361-526X
"Parent_Online_ISSN"	Online ISSN assigned to the parent item	IR	1541-1095
"Parent_URI"	URI for the parent item	IR	http://www.tandfonline.com/action/journalInformation?journalCode=wser20

Component Item Description and Identifiers

Repositories often store multiple components for a given repository item. These components could take the form of multiple files or datasets, which can be identified and usage reported on separately in repository reports.

Table 3.j (below): Elements that Describe a Component Item

Element Name	Description	Reports	Examples
"Component_Title"	Name or title of the component item	IR	
"Component_Authors"	Author of the component item	IR	

"Component_Publication_Date"	Date of publication for the component item	IR	
"Component_Article_Version"	ALPSP/NISO code indicating the version of the parent work. Possible values are "Accepted Manuscript", "Version of Record", "Corrected Version of Record", and "Enhanced Version of Record".	IR	"VoR"
"Component_Data_Type"	Data type of the component item	IR	
"Component_DOI"	DOI assigned to the component item	IR	
"Component_Proprietary_ID"	Identifier assigned by the repository to uniquely identify the component. Format as "*namespace=value*".	IR	
"Component_ISBN"	ISBN that is assigned to the component item. Include if applicable.	IR	
"Component_Print_ISSN"	Print ISSN that is assigned to the component item. Include if applicable.	IR	
"Component_Online_ISSN"	Online ISSN that is assigned to the component item. Include if applicable.	IR	
"Component_URI"	URI assigned to the component item. Include if applicable.	IR	

Item and Report Attributes

Table 3.k (below): Elements for Item and Report Attributes

Element Name	Description	Reports	Examples
"Data_Type"	Nature of the content that was used. See 3.3.2 for more detail and the COUNTER_SUSHI API Specification for an enumerated list of accepted values.	PR, DR, TR, IR	"Book", "Journal"
"Section_Type"	When content is accessed in chunks or sections, this attribute describes the nature of the content unit. See 3.3.3 for more detail and the COUNTER_SUSHI API Specification for an enumerated list of accepted values.	TR, IR	"Article", "Chapter"

"YOP"	Year of publication for the item being reported on. See 3.3.7 for more detail and the COUNTER_SUSHI API Specification for an enumerated list of accepted values.	PR, DR, TR, IR	"1997"
"Access_Type"	See 3.3.5 for more detail and the COUNTER_SUSHI API Specification for an enumerated list of accepted values.	PR, TR_J1, TR_B1, TR, IR	"Controlled", "OA_Gold"
"Access_Method"	See 3.3.6 for more detail and the COUNTER_SUSHI API Specification for an enumerated list of accepted values.	TR, IR	"Regular", "TDM"

Metric Type

Table 3.l (below): Report Element for Metric Type

Element Name	Description	Reports	Examples
"Metric_Type"	The type of activity that is being counted. See 3.3.4 for more detail and the COUNTER_SUSHI API Specification for an enumerated list of accepted values.	"All"	"Total_Item_Investigations"

Usage Data

Table 3.m (below): Elements for Usage Data

Element Name	Description	Reports	Examples
"Reporting_Period_Total"	Total of usage in this row for all months covered. Note: This element does NOT appear in the version of the report retrieved using SUSHI.	"All"	"123456"
"Mmm-yyyy"	A series of columns with usage for each month covered by the report. The format is "Mmm-yyyy". Note in the SUSHI version of the report, this is represented by "Begin" and "End" date elements for each month.	"All"	"May-2016"

3.3 COUNTER REPORT COMMON ATTRIBUTES AND ELEMENTS

Early releases of the COUNTER Code of Practice focused on usage statistics related to "Journals". That was expanded to "Books", and later articles and "Multimedia Collections" were added. R5 further expands the scope of COUNTER into the area of research data and social media. In order to help organize this increased scope in a single, consistent, and coherent Code of Practice, several new elements and attributes have been added.

3.3.1 Host Types

Usage reports are provided by many different types of content hosts ranging from "eBook Hosts" to "A&I Services", "E-Journal Hosts", "Discovery Services", "Multimedia Hosts" etc. The usage reporting needs vary by Host Type. To accommodate this variance, the R5 defines a set of Host Type categories. Although the "Host Type" does not appear on the COUNTER report, the Code of Practice uses "Host Types" throughout this document to help content providers identify which reports, elements, metric types, and attributes are relevant to them. The "Host Types" are:

Table 3.n (below): List of "Host Type" Values

Host Type Category	Description	Example
"E-Journal"	Provides access to online serial (journals, conferences, newspapers, etc.) content made available as individual titles or packages.	ScienceDirect
"eBook"	Provides access to eBook content made available as individual eBooks or eBook packages	EBL; EBSCOhost; ScienceDirect
"eBook Collection"	Provides access to eBook content that is sold as fixed collections and behaves like databases	EBSCOhost
"Multimedia"	Provides access to audio, video, or other multimedia content	Alexander Street Press
"Multimedia Collection"	Provides access to multimedia materials sold as and accessed like databases	
"Aggregated Full Content"	Provides access to aggregated pre-set databases of full text and other content where content is accessed in the context of the licensed database	EBSCOhost; ProQuest
"A&I Database"	Provides access to databases containing abstract and index information on scholarly articles intended to support discovery	APA; EBSCOhost; ProQuest
"Discovery Service"	Assists users with discovery of scholarly content by providing access to a central index of articles, books, and other metadata.	EBSCOhost (EDS); ProQuest (Primo/ Summon)
"Repository"	Provides access to an institution's research output. Includes subject repositories, institution, department, etc.	Cranfield CERES

"Data Repository"	Includes subject repositories, institution, etc.	UK Data Service – ReShare Figshare, DSpace, Eprints	
"Scholarly Collaboration Network "	A service used by researchers to share information about their work	Mendeley, Reddit/ science	

Note that a given content host may be classified has having multiple "Host Types" and would be expected to provide reports, metric types, elements, and attributes applicable to all. For example, EBSCOhost would be classified as "eBook", "Aggregated Full Content", "A&I Databases", and "Discovery".

3.3.2 Data Types

R5 reports scholarly information in many ways. These major groupings, referred to as "Data Types", are listed in the table below along with the "Host Types" and Reports that they apply to:

Table 3.o (below): List of "Data_Type" Values

Data Type	Description	Host Types	Reports (Abbrev)
"Article"	An article, typically published in a journal or reference work	"A&I Database" "Aggregated Full Content" "Discovery" "E-Journal" "Repository"	IR
"Book"	A monograph text	"A&I Database" "Aggregated Full Content" "Discovery" "eBook" "eBook Collection" "Repository"	TR, PR, IR, TR_B1, TR_B2
"Book Segment"	A book segment (e.g. chapter, section label, etc.). Note that the book segment type will be represented by the "Section_Type" element in the COUNTER report.	"A&I Database" "Aggregated Full Content" "Discovery" "eBook" "eBook Collection" "Repository"	IR

"Database"	A fixed database where content is searched and accessed in the context of the database. A given item on the host may be in multiple databases but a transaction can be attributed to a specific database.	"A&I Database" "Aggregated Full Content" "Discovery"	DR, DR_D1, DR_D2,
"Dataset"	A data set	"Repository"	IR
"Journal"	Textual content published serially as a journal or magazine	"A&I Database" "Aggregated Full Content" "Discovery" "E-Journal" "Repository"	TR, PR, IR, TR_J1 TR_J2
"Multimedia"	Multimedia content such as audio, image, streaming audio, streaming video, and video	"Multimedia" "Multimedia Collection"	IR
"Newspaper or Newsletter"	Textual content published serially in a newspaper or newsletter	"A&I Database" "Aggregated Full Content" "Discovery" "Repository"	TR, PR, DR, IR
"Other"	Content that cannot be classified by any of the other data types	"A&I Database" "Aggregated Full Content" "Discovery" "Repository"	TR, PR, DR, IR
"Platform"	A content platform that may reflect usage from multiple data Types	"All"	PR, PR_P1
"Repository Item"	A generic classification used for items stored in a repository	"Repository"	IR
"Report"	A report	"A&I Database" "Aggregated Full Content" "Discovery" "Repository"	TR, PR, DR, IR
"Thesis or Dissertation"	A thesis or dissertation	"A&I Database" "Aggregated Full Content" "Discovery" "Repository"	TR, PR, DR, IR

3.3.3 Section Types

Some scholarly content is accessed in sections. For example, a user may access a chapter or section at a time. The "Section_Type" was introduced to provide categorization of the transaction based on the type of section accessed. For example, a librarian could use a "Title Master Report" to see a breakdown of usage by "Title" and "Section_Type". The following table lists the "Section Types" defined by COUNTER and includes the "Host Type" and reports where "Section Types" may appear.

Table 3.p (below): List of "Section_Type" Values

Section Type	Description	Host Types	Reports (Abbrev)
"Article"	An article from a compilation, such as a journal, encyclopedia, or reference book	"A&I Database" "Aggregated Full Content" "Discovery" "E-Journal" "Repository"	TR IR
"Book"	A complete book, accessed as a single file	"A&I Database" "Aggregated Full Content" "Discovery" "E-Journal" "Repository"	TR IR
"Chapter"	A chapter from a book	"A&I Database" "Aggregated Full Content" "Discovery" "E-Journal" "Repository"	TR IR
"Other"	Content delivered in sections not otherwise represented on the list	"A&I Database" "Aggregated Full Content" "Discovery" "E-Journal" "Repository"	TR IR
"Section"	Used in conjunction with "Books" where the unit of content is a book section (i.e. a group of chapters or articles)	"A&I Database" "Aggregated Full Content" "Discovery" "E-Journal" "Repository"	TR IR

3.3.4 Metric Types

Metric Types, which represent the nature of activity being counted, can be grouped into the categories of searches, "Investigations" and "Requests", and "Access_Denied".

Searches

Table 3.q (below): List of Search "Metric_Types"

Metric Type	Description	Host Type	Reports
"Searches_Regular"	Number of searches conducted against a user-selected database where results are returned to the user on the host UI. The user is responsible for selecting the databases or set of data to be searched. This metric only applies to usage that is tracked at the "Database" level but is not represented at the "Platform" level.	"Aggregated Full Content" "A&I Databases"	DR, DR_D1
"Searches_Automated"	Searches conducted on the "Host Site" or "Discovery Service" where results are returned in the host-site UI and multiple databases are searched without user selection of "Databases". This metric only applies to usage that is tracked at the "Database" level but is not represented at the "Platform" level.	"Aggregated Full Content" "A&I Databases"	DR, DR_D1
"Searches_Federated"	Searches conducted by a federated search engine where the Search activity is conducted remotely via client-server technology. This metric only applies to usage that is tracked at the "Database" level but is not represented at the "Platform" level.	"Aggregated Full Content" "A&I Databases"	DR, DR_D1
"Searches_Platform"	Searches conducted by users and captured at the platform level. Each user-initiated search can only be counted once regardless of the number of "Databases" involved in the search. This metric only applies to "Platform Reports and Views".	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Data Repository" "Scholarly Collaboration Network" *All Host Types except "Repository"*	PR, PR_P1,

INVESTIGATIONS

View abstract

Link to Link Resolver

View cited references

Link to Inter-Library Loan form

REQUESTS

Vew HTML full text

View PDF full text

Watch whole video

View article preview

Figure 3.e: The relationship between "Investigations" and "Requests"

Investigations and Requests of Items and Titles

This group of metric types represents activities where content items were retrieved ("Requests") or information about a content item (e.g. an "Abstract") was examined ("Investigations"). Any user activity that can be attributed to a content item will be considered an "Investigation" including downloading or viewing the item. "Requests" are limited to user activity related to retrieving or viewing the content item itself. The figure below provides a graphical representation of the relationship between "Investigations" and "Requests".

Totals, Unique_Items and Unique_Titles

R5 also introduces the concept of totals: "Unique_Items" and "Unique_Titles". The metric types that begin with "Total_" are very similar to the metrics of R4, i.e. if a given article or book or book chapter was accessed multiple times in a user session, the metric would increase by the number of times the content item was accessed (minus any adjustments for double-clicks).

"Unique_Item" metrics have been introduced in R5 to help eliminate the effect different styles of user interface may have on usage counts. With R5, if the same article was accessed multiple times in a given user session, the corresponding metric can only increase by 1 to simply indicate that content item was accessed in the session.

"Unique_Title" metrics have been introduced in R5 to help normalize eBook metrics. Since eBooks can be downloaded as an entire book in a single PDF or as separate "Chapters", the counts for R4's BR1 (book downloads) and BR2 (section downloads) are not comparable. With the "Unique_Title" metrics, the book title's "Unique_Title" metrics are only increased by one no matter how many (or how many times) chapters or sections were accessed in a given user session. "Unique_Title" metrics provide comparable eBook metrics regardless of the nature of the platform and how eBook content was delivered.

Table 3.r (below): "Metric_Types" for "Requests" and "Investigations"

Metric Type	Description	Host Type	Reports
"Total_Item_Investigations"	Total number of times a "Content Item" or information related to a "Content Item" was accessed. Double-click filters are applied to these transactions. Examples of "Content Items" are article, book chapter, or multimedia files.	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Data Repository" "Scholarly Collaboration Network" *All except "Repository"**	TR, DR, PR, IR TR_B3 TR_J3 DR_D1
"Unique_Item_Investigations	Number of unique "Content Items" investigated in a user-session. Examples of "Content Items" are article, book chapter, or multimedia files.	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Data Repository" "Scholarly Collaboration Network" All except "Repository"*	TR, DR, PR, IR TR_B3 TR_J3
"Unique_Title_Investigations"	Number of unique titles investigated in a user-session. Examples of "Titles" are journals and books.	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Data Repository" "Scholarly Collaboration Network" All except "Repository"*	TR, DR, PR, IR TR_B3

"Total_Item_Requests"	Total number of times a "Content Item" was requested (i.e. the full text or content was downloaded or viewed). Double-click filters applied.	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Repository" "Data Repository" "Scholarly Collaboration Network"	TR, DR, PR, IR PR_P1 DR_D1 TR_B1 TR_B3 TR_J1 TR_J3 TR_J4 IR_A1 IR_M1
"Unique_Item_Requests"	Number of unique "Content Items" requested in a user-session. Examples of "Content Items" are article, book chapter, or multimedia files.	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Repository" "Data Repository" "Scholarly Collaboration Network"	TR, DR, PR, IR PR_P1 TR_B3 TR_J1 TR_J3 TR_J4
"Unique_Title_Requests"	Number of unique titles requested in a user-session. Examples of "Titles" are journals and books.		TR, DR, PR, IR TR_B1 TR_B3

*"Repositories" may provide these metric types if they are able to.

Access Denied

Table 3.s (below): List of "Metric_Types" for "Access_Denied"

Metric Type	Description	Host Type	Reports
"No_License"	Number of times access was denied because the user's institution did not have a license to the content. Note that if the user is automatically redirected to an abstract, that action will be counted as both a "No_License" and an "Item_Investigation".	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Repository" "Data Repository" "Scholarly Collaboration Network"	TR_B2, DR_D2, TR_J2
"Limit_Exceeded"	Number of times access was denied because the licensed simultaneous-user limit for the user's institution was exceeded.	"E-Journal" "eBook" "eBook Collection" "Multimedia" "Multimedia Collection" "Aggregated Full Content" "A&I Database" "Discovery Service" "Repository" "Data Repository" "Scholarly Collaboration Network"	TR_B2, DR_D2, TR_J2

3.3.5 Access Types

In order to track the value of usage for licensed content, librarians want to know how much usage was open access or other freely available content and how much was behind a paywall. To accommodate this R5 has introduced an "Access_Type" attribute with values of "Controlled", "OA_Gold", "OA_Delayed", and "Other_Free_To_Read".

Table 3.t (below): List of "Access_Type" Values

Access_Type	Description	Host Type	Reports
"Controlled"	At the time of the request or investigation the content item was not open (e.g. behind a paywall) because access is restricted to authorized users. Access of content due to a trial subscription/license would be considered "Controlled". Platforms providing content that has been made freely available but is not "OA_Gold" (e.g. free for marketing purposes or because the title offers free access after a year) MUST be tracked as "Controlled".	"E-Journal" "eBook" "Multimedia" "Repository"	TR, IR TR_J1,
"OA_Gold"	At the time of the user request or investigation the content item was available under a Gold open access license (content that is immediately and permanently available as open access because an APC applies or the publication process was sponsored by a library, society, or other organization.) Content items may be in "Hybrid Publications" or fully "Open Access" publications. Note that content items offered as "Delayed Open Access" (open after an embargo period) MUST currently be classified as "Controlled", pending the implementation of "OA_Delayed".	"E-Journal" "eBook" "Multimedia" "Repository"	TR, IR TR_J1,
"OA_Delayed"	*** RESERVED FOR FUTURE USE - DO NOT IMPLEMENT *** At the time of the user request or investigation the content item was available as open access after an embargo period had expired ("Delayed Open Access"). Note that author-archived works hosted in institutional repositories where access is restricted from public access for an embargo period will report usage as "OA_Delayed" for content accessed after the embargo period expires. NOTE: this value is not to be used until its inclusion has been approved by COUNTER and a timeframe for implementation published by COUNTER.	"E-Journal" "eBook" "Multimedia" "Repository"	TR, IR TR_J1,
"Other_Free_To_Read"	At the time of the transaction the content item was available as free-to-read (no license required) and did not qualify under either of the OA "Access_Type" categories. NOTE: this value is for "Institutional Repositories" only.	"Repository"	IR

3.3.6 Access Methods

In order to track content usage that was accessed for the purpose of text and data mining ("TDM") and to keep that usage separate from normal usage, R5 introduces the "Access_Method" attribute, with values of "Regular" and "TDM".

Table 3.u (below): List of "Access_Method" Values

Access_Method	Description	Host Type	Reports
"Regular"	Refers to activities on a platform or content host that represent typical user behavior	"E-Journal"	TR IR
"TDM"	Content and metadata accessed for the purpose of text and data mining, i.e. through a specific API used for "TDM". Note that usage representing "TDM" activity is to be included in Master Reports only.	"E-Journal" "eBook"	TR IR

3.3.7 YOP

Analyzing collection usage by the age of the content is also desired. The YOP usage attribute represents year of publication.

Table 3.v (below): "YOP" Formatting

YOP	Description	Host Type	Reports
"yyyy"	*The "Year of Publication" for the item as a four-digit year. If a content item has a different year of publication for an online version than the print, use the year of publication for the version of record. If the year of publication is not known, use a value of "0001." For articles-in-press (not yet assigned to an issue), use the value 9999.*	*"E-Journal"* *"eBook"* *"eBook Collection"* *"Multimedia"* *"Multimedia Collection"* *"Aggregated Full Content"* *"A&I Database"* *"Discovery Service"* *"Repository"* *"Data Repository"* *"Scholarly Collaboration Network"*	PR, DR, TR, IR TR_B1, TR_B2, TR_J2,

3.3.8 Zero Usage

Not all content providers or other COUNTER report providers link their COUNTER reporting tool to their subscription database, so R5 reports cannot include zero-usage reporting based on subscription records. Inclusion of zero-usage reporting for everything, including unsubscribed content, could make reports unmanageably large. The need for libraries to identify subscribed titles with zero usage will be addressed by the "KBART-Automation for SUSHI harvesting of BOTH usage and entitlements" initiative.

- For tabular reports

  - Omit any row where the Reporting Period Total would be zero.

  - If the Reporting Period Total is >0, but usage for an included month is zero, set the cell value for that month to 0.

- For SUSHI version of reports

  - Omit any "Instance" element with a count of zero.

  - Omit "Performance" elements that don't have at least one "Instance" element.

  - Omit "ReportItems" elements that don't have at least one "Performance" element.

3.3.9 Missing and Unknown Field Values

- For tabular reports

  - If a field value is missing or unknown (i.e. the ISBN for a title doesn't exist or isn't known), the field MUST be left blank. For clarity, the field MUST NOT contain values such as "unknown" or "n/a".

- For SUSHI version of reports

  - If the value of a field is missing or unknown and the COUNTER_SUSHI OpenAPI Specification (see Section 8 below) indicates the field is REQUIRED, the value of the field MUST be expressed as empty as appropriate for the data type.

  - If the value of a field is missing or unknown and the field is not REQUIRED according to the COUNTER_SUSHI OpenAPI Specification, the field MUST be omitted from the response.

# 4.	COUNTER REPORTS

4.1 PLATFORM REPORTS

Platform reports provide a summary of activity on a given platform to support the evaluation of platforms and to provide high-level statistical data to support surveys and reporting to funders.

Table 4 (below): Platform Master Report and Standard Views

Report_ID	Report_Name	Details	Host Types
PR	Platform Master Report	A customizable report that summarizes activity across a provider's platforms and allows the user to apply filters and select other configuration options	"All"
PR_P1	Platform Usage	A Standard View of the Platform Master Report offering platform-level usage summarized by metric type	"All"

4.1.1 Report Header

The table below shows the header details for the Platform Master Report and its Standard Views. For the tabular reports, elements MUST appear in the exact order shown and spelling, casing, and punctuation of labels (Column A) and fixed data elements such as report names (Column B) MUST match exactly. The SUSHI version of the report MUST comply with the "Report_Header" definition in the COUNTER_SUSHI OpenAPI specification (see Section 8 below). Entries in the table appearing in italics describe the values to include.

Table 4.a (below): Header for Platform Master Report and Standard Views

Row in Tabular Report	Label for Tabular Report (Column A)	Value for Tabular Report (Column B)	
		PR (Master Report)	**PR_P1 (Standard View)**
1	"Report_ Name"	Platform Master Report	Platform Usage
2	"Report_ID"	PR	PR_P1
3	"Release"	5	5
4	"Institution_ Name"	Name of the institution usage is attributed to.	
5	"Institution_ ID"	Identifier(s) for the institution in the format of type=identifier. Leave blank if identifier is not known. Multiple values may be included by separating with semicolon-space ("; ").	

6	"Metric_ Types"	Semicolon-space delimited list of metric types included in the report	"Searches_Platform"; "Total_Item_Requests"; "Unique_Item_Requests"
7	"Report_ Filters"	Semicolon-space delimited list of filters applied to the data to generate the report	"Access_Type=controlled"; "Access_ Method=regular"
8	"Report_ Attributes"	Semicolon-space delimited list of report attributes applied to the data to generate the report	(blank)
9	"Exceptions"	Any exceptions that occurred in generating the report, in the format "Error_ Number: Error_Description"	
10	"Reporting_ Period""	*Date range requested for the report in the form of "yyyy-mm-dd" to "yyyy-mm-dd". The "dd" of the from-date is 01. The "dd" of the to-date is the last day of the to-month.*	
11	"Created"	Date the report was run in the format of "yyyy-mm-dd"	
12	"Created_By"	Name of organization or system that generated the report	
13	(blank)	(blank)	(blank)

4.1.2 Column Headings/Elements

When applicable, the following elements MUST appear in the tabular report in the order they appear in the table below. For guidance on how these fields appear in the JSON format, refer to the COUNTER_SUSHI OpenAPI Specification (see Section 8 below).

Table 4.b (Below): Column Headings/Elements for Platform Master Report and Standard Views

Field Name (Tabular)	PR	PR_P1
"Platform"	M	M
"YOP"	O	
"Data_Type"	O	
"Access_Type"	O	
"Access_Method"	O	
"Metric_Type"	M	M
"Reporting_ Period_Total"	M	M
"mmm-yyyy"	M	M

4.1.3. Filters and Attributes

The following table presents the values that can be chosen for the Platform Master Report and that are pre-set for the Standard View.

Table 4.c (below) Values for Filters and Attributes

Filter/ Attribute	Filters available (options for Master Report and required for Standard Views)	
	PR (Master Report)	**PR_P1**
"YOP"	All years, a specific year, or a range of years. Use "0001" for unknown or "9999" for articles in press.	"All"
"Data_Type"	"All", or select one or more of the "Data_Types" applicable to the platform.	"All"
"Access_Type"	One or more of: - "All" - "Controlled" - "OA_Gold" - "Other_Free_To_Read"	"All"
"Access_ Method"	One or more of: - "All" - "Regular" - "TDM"	"Regular"
"Metric_Type"	All or one or more of: - "All" - "Searches_Platform" - "Total_Item_Investigations" - "Total_Item_Requests" - "Unique_Item_Investigations" - "Unique_Item_Requests" - "Unique_Title_Investigations" - "Unique_Title_Requests"	"Searches_Platform" "Total_Item_Requests" "Unique_Item_Requests" "Unique_Title_Requests"
"Exclude_ Monthly_ Details"	When this attribute is included, only the Reporting Period Total column is included for usage counts.	

If a filter is applied to a column that doesn't show on the report, usage for all selected attribute values is summed and the totals are presented in the report.

4.2 DATABASE REPORTS

Database reports provide a summary of activity related to a given database or fixed collection of content that is packaged like a database. These reports provide a means of evaluating the impact a database has for an institution's users.

Table 4.d (below): Database Master Report and Standard Views

Report_ID	Report_Name	Details	Host Types
DR	Database Master Report	A customizable report detailing activity by database that allows the user to apply filters and select other configuration options	"A&I Database" "Aggregated Full Content" "Multimedia (databases)"
DR_D1	Database Search and Item Usage	Reports on key search and "Request" metrics needed to evaluate a database	"A&I Database" "Aggregated Full Content" "Multimedia (databases)"
DR_D2	Database Access Denied	Reports on "Access_Denied" activity for databases where users were denied access because simultaneous user licences were exceeded or their institution did not have a license for the database	"A&I Database" "Aggregated Full Content" "Multimedia (databases)"

4.2.1 Report Header

The table below shows the header details for the Database Master Report and its Standard Views. For the tabular reports, elements MUST appear in the exact order shown, and spelling, casing, and punctuation of labels (Column A) and fixed data elements such as report names (Column B) MUST match exactly. The SUSHI version of the report MUST comply with the "Report_Header" definition in the COUNTER_SUSHI OpenAPI specification (see Section 8 below). Entries in the table appearing in italics describe the values to include.

Table 4.e (below): Header for Database Master Report and Standard Views

Row in Tabular Report	Label for Tabular Report (Column A)	Value for Tabular Report (Column B)		
		DR (Master Report)	**DR_D1 (Standard View)**	**DR_D1 (Standard View)**
1	"Report_Name"	Database Master Report	Database Usage	Database Access Denied
2	"Report_ID"	DR	DR_D1	DR_D2
3	"Release"	5	5	5
4	"Institution_Name"	Name of the institution usage is attributed to.		
5	"Institution_ID"	Identifier(s) for the institution in the format of type=identifier. Leave blank if identifier is not known. Multiple values may be included by separating with semicolon-space ("; ").		

6	"Metric_Types"	Semicolon-space delimited list of metric types included in the report	"Searches_Automated"; "Searches_Federated"; "Searches_Regular"; "Total_Item_ Investigations"; "Total_Item_Requests"	"Limit_Exceeded"; "No_License"
7	"Report_ Filters"	Semicolon-space delimited list of filters applied to the data to generate the report	"Access_ Type=controlled"; "Access_Method=regular"	"Access_ Method=regular"
8	"Report_ Attributes"	Semicolon-space delimited list of report attributes applied to the data to generate the report	(blank)	(blank)
9	"Exceptions"	Any exceptions that occurred in generating the report, in the format Error_ Number: Error_Description.		
10	"Reporting_ Period"	*Date range requested for the report in the form of "yyyy-mm-dd" to "yyyy-mm-dd". The "dd" of the from-date is 01. The "dd" of the to-date is the last day of the to-month.*		
11	"Created"	Date the report was run in the format of "yyyy-mm-dd"		
12	"Created_By"	Name of organization or system that generated the report		
13	(blank)	(blank)	(blank)	(blank)

4.2.2 Column Headings/Elements

When applicable, the following elements MUST appear in the tabular report in the order they appear in the table below. For guidance on how these fields appear in the JSON format, refer to the COUNTER_SUSHI OpenAPI specification (see Section 8 below).

Table 4.f (below): Column Headings/Elements for Database Master Report and Standard Views

Field Name (Tabular)	DR	DR_D1	DR_D2
"Database"	M	M	M
"Publisher"	M	M	M
"Publisher_ID"	M	M	M
"Platform"	M	M	M
"Proprietary_ID"	M	M	M
"Data_Type"	O		
"YOP"	O		
"Access_Type"	O		

"Access_Method"	O		
"Metric_Type"	M	M	M
"Reporting_ Period_Total"	M	M	M
"mmm-yyyy"	M	M	M

4.2.3. Filters and Attributes

The following table presents the values that can be chosen for the Database Master Report and that are pre-set for the Standard View.

Table 4.g (below): Values for filters and attributes

Filter/Attribute	Filters available (options for Master Report and required for Standard Views)		
	DR	DR_D1	DR_D2
"YOP"	All years, a specific year, or a range of years. User "0001" for unknown or "9999" for articles in press.	"All"	"All"
"Data_Type"	"All", or select one or more of the "Data_Types" applicable to the platform.	"All"	"All"
"Access_Type"	One or more of: - "All" - "Controlled" - "OA_Gold" - "Other_Free_To_Read"	"All"	"All"
"Access_Method"	One or more of: - "All" - "Regular" - "TDM"	"Regular"	"Regular"
"Metric_Type"	"All" or one or more of: - "Searches_Automated" - "Searches_Federated" - "Searches_Regular" - "Total_Item_Investigations" - "Total_Item_Requests" - "Unique_Item_Investigations" - "Unique_Title_Investigations" - "Limit_Exceeded" - "No_License"	"Searches_Automated" "Searches_Federated" "Searches_Regular" "Total_Item_Investigations" "Total_Item_Requests"	"Limit_Exceeded" "No_License"

"Exclude_Monthly_ Details"	One of:
	- "True"
	- "False"

If a filter is applied to a column that doesn't show on the report, usage for all selected attribute values is summed and the totals are presented in the report.

4.3 TITLE REPORTS

Title reports provide a summary of activity related to a content at the title level and provide a means of evaluating the impact a title has for an institution's patrons.

Table 4.h (below): Title Master Report and Standard Views

Report_ID	Report_Name	Details	Host Types
TR	Title Master Report	Provides comprehensive information about activity at the "Title" level and includes all metrics and attributes relevant to any of the "Title Standard Views". This is a flexible report that allows the user to customize columns, attributes, and filters as desired.	"eBook "E-Journal" "Aggregated Full Content"
TR_B1	Book Requests (excluding "OA_Gold")	Reports on full text activity for non-Gold open Access books as "Total_Item_Requests" and "Unique_Title_Requests". The "Unique_Title_ Requests" provides comparable usage across book platforms. The "Total_Item_Requests" shows overall activity; however, numbers between sites will vary significantly based on how the content is delivered (e.g. delivered as a complete book or by chapter).	"eBook" "Aggregated Full Content"
TR_B2	Book Access Denied	Reports on "Access Denied" activity for books where users were denied access because simultaneous-user licences were exceeded or their institution did not have a license for the book	"eBook"
TR_B3	Book Usage by Access Type	Reports on book usage showing all applicable metric types broken down by "Access_Type"	"eBook" "Aggregated Full Content"
TR_J1	Journal Requests (excluding "OA_Gold")	Reports on usage of non-Open Access Gold journal content as "Total_Item_Requests" and "Unique_Item_Requests". The "Unique_Item_ Requests" provides comparable usage across journal platform by reducing the inflationary effect that occurs when and HTML full text automatically displays and the user then access the PDF version. The "Total_Item_Requests" shows overall activity.	"E-Journal" "Aggregated Full Content"

TR_J2	Journal Access Denied	Reports on "Access Denied" activity for journal content where users were denied access because simultaneous-user licences were exceeded or their institution did not have a license for the title	"E-Journal"
TR_J3	Journal Usage by Access Type	Reports on usage of journal content for all metric types broken down by "Access_Type"	"E-Journal" "Aggregated Full Content"
TR_J4	Journal Requests by YOP (excluding "OA_Gold")	Breaks down the usage of non-Open Access Gold journal content by year of publication, providing counts for the metric types; "Total_ Item_Requests" and "Unique_Item_Requests". Provides the details necessary to analyze usage of backfiles content or content covered by perpetual-access agreement. Note: COUNTER reports do not provide access model or perpetual access rights details.	"E-Journal" "Aggregated Full Content"

4.3.1 Report Header

The table below shows the header details for the Title Master Report and its Standard Views. For the tabular reports, elements MUST appear in the exact order shown, and spelling, casing, and punctuation of labels (Column A) and fixed data elements such as report names (Column B) MUST match exactly. The SUSHI version of the report MUST comply with the "Report_Header" definition in the COUNTER_SUSHI OpenAPI Specification (see Section 8 below). Entries in the table appearing in italics describe the values to include.

Table 4.i (below) Header Details for the Title Master Report and Standard Views – Part 1 (for Books)

Row in Tabular Report	Label for Tabular Report (Column A)	Value for Tabular Report (Column B)			
		TR (Master Report)	TR_B1 (Standard View)	TR_B2 (Standard View)	TR_B3 (Standard View)
1	"Report_ Name"	Title Master Report	Book Requests (excluding "OA_ Gold")	Book Access Denied	Book Usage by Access Type
2	"Report_ID"	TR	TR_B1	TR_B2	TR_B3
3	"Release"	5	5	5	5
4	"Institution_ Name"	Name of the institution usage is attributed to.			
5	"Institution_ ID"	Identifier(s) for the institution in the format of type=identifier. Leave blank if identifier is not known. Multiple values may be included by separating with semicolon-space ("; ").			

Row	Label	Description	Value	Value	Value
6	"Metric_Types"	Semicolon-space delimited list of metric types included in the report	"Total_Item_Requests"; "Unique_Title_Requests"	"Limit_Exceeded"; "No_License"	"Total_Item_Investigations"; "Total_Item_Requests"; "Unique_Item_Investigations"; "Unique_Item_Requests"; "Unique_Title_Investigations"; "Unique_Title_Requests"
7	"Report_Filters"	Semicolon-space delimited list of filters applied to the data to generate the report	"Data_Type=book"; "Access_Type=controlled"; "Access_Method=regular"	"Data_Type=book"; "Access_Method=regular"	"Data_Type=book"; "Access_Method=regular"
8	"Report_Attributes"	Semicolon-space delimited list of report attributes applied to the data to generate the report	(blank)	(blank)	"Attributes_To_Show=Access_Type"
9	"Exceptions"	Any exceptions that occurred in generating the report, in the format Error_Number: Error_Description.			
10	"Reporting_Period"	Date range requested for the report in the form of "yyyy-mm-dd" to "yyyy-mm-dd". The "dd" of the from-date is 01. The "dd" of the to-date is the last day of the to-month.			
11	"Created"	Date the report was run in the format of "yyyy-mm-dd"			
12	"Created_By"	Name of organization or system that generated the report			
13	(blank)	(blank)	(blank)	(blank)	(blank)

Table 4.j (below): Header for Title Master Report and Standard Views - Part 2 (for Journals)

Row in Tabular Report	Label for Tabular Report (Column A)	Value for Tabular Report (Column B)			
		TR_J1 (Standard View)	TR_J2 (Standard View)	TR_J3 (Standard View)	TR_J4 (Standard View)
1	"Report_Name"	Journal Requests (excluding OA_Gold)	Journal Access Denied	Journal Usage by Access Type	Journal Requests by YOP (excluding OA_Gold)
2	"Report_ID"	TR_J1	TR_J2	TR_J3	TR_J4
3	"Release"	5	5	5	5

#	Field				
4	"Institution_ Name"	Name of the institution usage is attributed to			
5	"Institution_ID"	Identifier(s) for the institution in the format of type=identifier. Leave blank if identifier is not known. Multiple values may be included by separating with semicolon-space ("; ").			
6	"Metric_Types"	"Total_Item_ Requests"; "Unique_Item_ Requests"	"Limit_ Exceeded"; "No_License"	"Total_Item_ Investigations"; "Total_Item_ Requests"; "Unique_Item_ Investigations"; "Unique_Item_ Requests;	"Total_Item_ Requests"; "Unique_Item_ Requests"
7	"Report_ Filters"	"Data_ Type=journal"; "Access_ Type=controlled"; "Access_ Method=regular"	"Data_ Type=journal"; "Access_ Method=regular"	"Data_ Type=journal; "Access_ Method=regular"	"Data_ Type=journal"; "Access_Type =controlled"; "Access_Method =regular"
8	"Report_ Attributes"	Semicolon-space delimited list of report attributes applied to the data to generate the report	(blank)	"Attributes_To_ Show=Access_ Type"	"Attributes_To_ Show=YOP"
9	"Exceptions"	Any exceptions that occurred in generating the report, in the format Error_ Number: Error_Description			
10	"Reporting_ Period"	Date range requested for the report in the form of "yyyy-mm-dd" to "yyyy-mm-dd". The "dd" of the from-date is 01. The "dd" of the to-date is the last day of the to-month.			
11	"Created"	Date the report was run in the format of "yyyy-mm-dd"			
12	"Created_By"	Name of organization or system that generated the report			
13	(blank)	(blank)	(blank)	(blank)	(blank)

4.3.2 Column Headings/Elements

When applicable, the following elements MUST appear in the tabular report in the order they appear in the table below. For guidance on how these fields appear in the JSON format, refer to the COUNTER_SUSHI OpenAPI Specification (see Section 8 below).

Table 4.k (below): Column Headings/Elements for Title Master Report and Standard Views

Field Name (Tabular)	TR	TR_B1	TR_B2	TR_B3	TR_J1	TR_J2	TR_J3	TR_J4
"Title"	M	M	M	M	M	M	M	M
"Publisher"	M	M	M	M	M	M	M	M

"Publisher_ID"	M	M	M	M	M	M	M	M
"Platform"	M	M	M	M	M	M	M	M
"DOI"	M	M	M	M	M	M	M	M
"Proprietary_ID"	M	M	M	M	M	M	M	M
"ISBN"	M	M	M	M	M	M	M	M
"Print_ISSN"	M	M	M	M	M	M	M	M
"Online_ISSN"	M	M	M	M	M	M	M	M
"URI"	M	M	M	M	M	M	M	M
"Data_Type"	O							
"Section_Type"	O							
"YOP"	O							M
"Access_Type"	O			M			M	
"Access_Method"	O							
"Metric_Type"	M	M	M	M	M	M	M	M
"Reporting_Period_Total"	M	M	M	M	M	M	M	M
"mmm-yyyy"	M	M	M	M	M	M	M	M

4.3.3. Filters and Attributes

The following table presents the values that can be chosen for the Title Master Report and that are pre-set for the Standard Views.

Table 4.l (below): Filters/Attributes for Title Master Report and Standard Views - Part 1 (for Books)

Filter/ Attribute	Filters available (options for Master Report and required for Standard Views)			
	TR	T_B1	TR_B2	TR_B3
"Data_Type"	"All", or select one or more of the "Data_Types" applicable to the platform	"Book"	"Book"	"Book"
"Section_Type"	"All", or select one or more of the "Section_Types" applicable to the platform	"All"	"All"	"All"
"YOP"	All years, a specific year, or a range of years. Use "0001" for unknown or "9999" for articles in press.	"All"	"All"	"All"

Filter/Attribute	Filters available			
"Access_Type"	One or more of: - "All" - "Controlled" - "OA_Gold" - "Other_Free_To_Read"	"Controlled"	"Controlled"	"All"
"Access_Method"	One or more of: "All"- "Regular" - "TDM"	"Regular"	"Regular"	"Regular"
"Metric_Type"	One or more of: - "All" - "Searches_Automated" - "Searches_Federated" - "Searches_Regular" - "Total_Item_Investigations" - "Total_Item_Requests" - "Unique_Item_Investigations; - "Unique_Title_Investigations"; - "Limit_Exceeded"; - "No_License"	"Total_Item_ Requests" "Unique_Title_ Requests"	"Limit_ Exceeded" "No_License"	"Total_Item_ Investigations" "Total_Item_ Requests" "Unique_Item_ Investigations" "Unique_Item_ Requests" "Unique_Title_ Investigations" "Unique_Title_ Requests"
"Exclude_ Monthly_ Details"	One of: - "True" - "False"			

Table 4.m (below): Filters/Attributes for Title Master Report and Standard Views - Part 2 (for Journals)

Filter/ Attribute	Filters available (options for Maswter Report and required for Standard Views)			
	TR_J1	TR_J2	TR_J3	TR_J4
"Data_Type"	"Journal"	"Journal"	"Journal"	"Journal"
"Section_ Type"	,	"All"	"All"	"All"
"YOP"	"All"	"All"	"All"	"All"
"Access_Type"	"Controlled"	"Controlled"	"All"	"Controlled"
"Access_ Method"	"Regular"	"Regular"	"Regular"	"Regular"
"Metric_Type"	"Total_Item_ Requests"; "Unique_Item_ Requests"	"Limit_Exceeded"; "No_License"	"Total_Item_ Investigations"; "Total_Item_Requests"; "Unique_Item_ Investigations"; "Unique_Item_ Requests";	"Total_Item_ Requests"; "Unique_Item_ Requests"

If a filter is applied to a column that doesn't show on the report, usage for all selected attribute values is summed and the totals are presented in the report.

4.3 ITEM REPORTS

Title reports provide a summary of activity related to a content at the title level and provide a means of evaluating the impact a title has for an institution's patrons.

Table 4.n (below): Item Master Report and Standard Views

Report_ID	Report_Name	Details	Host Types
IR	Item Master Report	A granular, customizable report showing activity at the level of the "Item" (article, chapter, media object, etc.) that allows the user to apply filters and select other configuration options	"Repository" "Multimedia"
IR_A1	Journal Article Requests	Reports on Journal Article Requests at the article level. This report is limited to content with a data type of "Journal", section type of "Article", and metric types of "Total_Item_Requests".	"Repository"
IR_M1	Multimedia Item Requests	Reports on multimedia requests at the "Item" level	"Multimedia"

4.3.1 Report Header

The table below shows the header details for the Item Master Report and its Standard Views. For the tabular reports, elements MUST appear in the exact order shown, and spelling, casing and punctuation of labels (Column A) and fixed data elements such as report names (Column B) MUST match exactly. The SUSHI version of the report MUST comply with the "Report_Header" definition in the COUNTER_SUSHI OpenAPI Specification (see Section 8 below). Entries in the table appearing in italics describe the values to include.

Table 4.o (below): Header for Item Master Report and Standard Views

Row in Tabular Report	Label for Tabular Report (Column A)	Value for Tabular Report (Column B)		
		IR (Master Report)	IR_A1 (Standard View)	IR_M1 (Standard View)
1	"Report_Name"	Title Master Report	Journal Article Requests	Multimedia Item Requests
2	"Report_ID"	IR	IR_A1	IR_M1
3	"Release"	5	5	5
4	"Institution_Name"	Name of the institution usage is attributed to.		
5	"Institution_ID"	Identifier(s) for the institution in the format of type=identifier. Leave blank if identifier is not known. Multiple values may be included by separating with semicolon-space ("; "").		

6	"Metric_Types"	Semicolon-space delimited list of metric types included in the report	"Total_Item_ Requests"	"Total_Item_Requests"
7	"Report_Filters"	Semicolon-space delimited list of filters applied to the data to generate the report	"Data_Type=journal"; "Section_ Type=article"; "Access_ Method=regular" -OR- "Data_Type=article"; "Access_ Method=regular"	"Data_Type=multimedia"; "Access_Method=regular"
8	"Report_ Attributes"	Semicolon-space delimited list of report attributes applied to the data to generate the report	(blank)	(blank)
9	"Exceptions"	Any exceptions that occurred in generating the report, in the format "Error_Number: Error_Description"		
10	"Reporting_ Period"	Date range requested for the report in the form of "yyyy-mm-dd" to "yyyy-mm-dd". The "dd" of the from-date is 01. The "dd" of the to-date is the last day of the to-month.		
11	"Created"	Date the report was run in the format of "yyyy-mm-dd"		
12	"Created_By"	Name of organization or system that generated the report		
13	(blank)	(blank)	(blank)	(blank)

4.4.2 Column Headings/Elements

When applicable, the following elements MUST appear in the tabular report in the order they appear in the table below. For guidance on how these fields appear in the JSON format, refer to the COUNTER_SUSHI OpenAPI Specification (see Section 8 below).

Table 4.p (below): Column Headings/Elements for Item Master Report and Standard Views

Field Name (Tabular)	IR	IR_A1	IR_M1
"Item"	M	M	M
"Publisher"	M	M	M
"Publisher_ID"	M	M	M
"Platform"	M	M	M
"Authors"	O	M	

"Publication_Date"	O	M	
"Article_Version"	O	M	M
"DOI"	M	M	M
"Proprietary_ID"	M	M	M
"ISBN"	M	M	
"Print_ISSN"	M	M	
"Online_ISSN"	M	M	
"URI"	M	M	M
"Parent_Title"	O	M	
"Parent_Data_Type"	O	M	
"Parent_DOI"	O	M	
"Parent_Proprietary_ID"	O	M	
"Parent_ISBN"	O	M	
"Parent_Print_ISSN"	O	M	
"Parent_Online_ISSN"	O	M	
"Parent_URI"	O	M	
"Component_Title"	O		
"Component_Data_Type"	O		
"Component_DOI"	O		
"Component_Proprietary_ID"	O		
"Component_ISBN"	O		
"Component_Print_ISSN"	O		
"Component_Online_ISSN"	O		
"Component_URI"	O		
"Data_Type"	O		
"Section_Type"	O		
"YOP"	O		
"Access_Type"	O		
"Access_Method"	O		
"Metric_Type"	M	M	M
"Reporting_ Period_Total"	M	M	M
"mmm-yyyy"	M	M	M

4.4.3. Filters and Attributes

The following table presents the values that can be chosen for the Title Master Report and that are pre-set for the Standard Views.

Table 4.q (below): Filters/Attributes for Item Master Report and Standard Views

Filter/Attribute	Filters available (options for Master Report and required for Standard Views)		
	IR	IR_A1	IR_M1
"Data_Type"	"All", or select one or more of the "Data_Types" applicable to the platform	"Article", "Journal"	"Multimedia"
"Section_Type"	"All", or select one or more of the "Section_Types" applicable to the platform	"Article"	"All"
"YOP"	All years, a specific year, or a range of years. Use "0001" for unknown or "9999" for articles in press.	"All"	"All"
"Access_Type"	One or more of: - "All" - "Controlled" - "OA_Gold" - "Other_Free_To_Read"	"All"	"All"
"Access_Method"	One or more of: - "All" - "Regular" - "TDM"	"Regular"	"Regular"
"Metric_Type"	One or more of: - "All" - "Total_Item_Investigations" - "Total_Item_Requests" - "Unique_Item_Investigations" - "Unique_Title_Investigations"	"Total_Item_Requests"	"Total_Item_Requests"
"Include_Component_Details"	One of: - "True" - "False"	"False"	"False"
"Exclude_Monthly_Details"	One of: - "True" - "False"		

If a filter is applied to a column that doesn't show on the report, usage for all selected attribute values is summed and the totals are presented in the report.

5. DELIVERY OF COUNTER REPORTS

Content providers MUST make tabular versions of COUNTER reports available from an administrative/reporting site accessible by members of the institution requesting the report. All COUNTER reports provided by the content provider MUST also be available via SUSHI protocols. Delivery requirements are:

- Reports MUST be provided in the following formats:

  - Microsoft Excel file (see Section 4.1 above), or as a Tab Separated Value (TSV) file or other structured text file that can be easily imported into spreadsheet programs without loss or corruption of data. Microsoft Excel files may be offered in addition to text files.

  - JSON formatted in accordance with the https://app.swaggerhub.com/apis/COUNTER/counter-sushi_5_0_api/1.0.0

- Each report MUST be delivered as a separate file to facilitate automated processing of usage reports into ERM and usage consolidation systems. For clarity, multiple reports MUST NOT be included in the same Excel file as separate worksheets.

- Tabular reports MUST be made available through a website.

  - The website may be password-controlled.

  - Email alerts may be sent when data is updated.

  - The report interface MUST provide filter and configuration options for the Master Reports that apply to the content provider.

  - The report interface MUST offer all Standard Views that apply to the content provider's Host Type(s) and Standard Views options MUST automatically apply the REQUIRED filter and configuration options and not allow the user to alter the filters or configuration options except for the usage begin and end dates.

  - The date range fields on the user interface MUST default to the latest month with complete usage. For example, if the current date is 15 May 2019 and April usage has been processed, the begin date would default to 01 April 2019 and the end date would default to 30 April 2019. If the April usage has not yet been processed, the start and end dates would default to 01 March 2019 to 31 March 2019.

- Master Reports must include the option to "Exclude_Monthly_Details". When selected, the monthly columns are excluded from the report (only "ReportingPeriod Totals" appear). Note: this option is NOT available for reports retrieved via SUSHI; however, SUSHI does offer a "Granularity" Report Attribute that allows usage to be retrieved with a granularity of month, year, or totals.

- Reports MUST be provided monthly.

- Data MUST be updated within 4 weeks of the end of the reporting period.

- Usage MUST be processed for the entire month before any usage for that month can be included in reports. If usage for a given month is not available yet, no usage for that month MUST be returned and an exception included in the report/response to indicate partial data is being returned.

- A minimum of the current year plus most recent 24 months of usage data MUST be available, unless the content provider is newly COUNTER compliant.

- When content providers become compliant with a new release of the Code of Practice, they begin compiling usage compliant with the new release from the time they become compliant, and they MUST continue to provide the older usage that complies with the previous release(s) of the Code of Practice to fulfil the 24-month requirement.

- The reports MUST allow the customer the flexibility to specify a date range, in terms of months, within the most recent 24-month period. Where no date range is specified, the default MUST be calendar year and calendar-year-to-date reports for the current year.

- Reports MUST be available for harvesting via the SUSHI protocol within 4 weeks of the end of the reporting period.

5.1 ACCESS TO USAGE FOR CONSORTIA

Separate consortium reports are not provided under R5. Consortium managers must be able to access any R5 report for their members. To facilitate this:

- The consortium administrator MUST be able to access the usage statistics for individual consortium member institutions, from a single login, using the same user id and password (i.e. without having to logout and back in for each individual institution).

- SUSHI implementations MUST support the /members path (see Section 10.3 below) to facilitate consortium managers retrieving usage for all members.

6. LOGGING USAGE

Usage data can be generated in a number of ways, and COUNTER does not prescribe which approach should be taken. The two most common approaches are:

- Log file analysis, which reads the log files containing the web server records all of its transactions

- Page tagging, which uses JavaScript on each page to notify a third-party server when a page is rendered by a web browser.

Other options are to leverage Distributed Usage Logging (DUL) to capture content activity that happens on other web sites. Each of these approaches has advantages and disadvantages, summarised below.

6.1 LOG FILE ANALYSIS

The main advantages of log file analysis over page tagging are:

- Web servers normally produce log files, so the raw data are already available. No changes to the website are required.

- The data is on the organization's own servers and is in a standard, rather than a proprietary, format. This makes it easy for an organization to switch programs later, use several different programs, and analyse historical data with a new program.

- Log files contain information on visits from search engine spiders. Although these MUST NOT be reported as part of user activity, it is useful information for search engine optimization.

- Log files require no additional DNS lookups. Thus, there are no external server calls which can slow page load speeds or result in uncounted page views.

- The web server reliably records every transaction it makes, including items such as serving PDF documents and content generated by scripts, and does not rely on the visitor's browser.

6.2 PAGE TAGGING

The main advantages of page tagging over log file analysis are:

- Counting is activated by opening the page, not requesting it from the server. If a page is cached, it will not be counted by the server. Cached pages can account for a significant proportion of page views.

- Data is gathered via a component (tag) in the page, usually written in JavaScript although Java can also be used. JQuery and AJAX can also be used in conjunction with a server-side scripting language (such as PHP) to manipulate and store it in a database, allowing complete control over how the data is represented.

- The script may have access to additional information on the web client or on the user not sent in the query.

- Page tagging can report on events that do not involve a request to the web server.

- Page tagging is available to companies who do not have access to their own web servers.

- The page-tagging service manages the process of assigning cookies to visitors; with log file analysis, the server must be configured to do this.

- Recently page tagging has become a standard in web analytics.

- Log file analysis is almost always performed in-house. Page tagging can be done in-house, but is more often provided as a third-party service. The cost differences between these two models can also be a consideration.

6.3 DISTRIBUTED USAGE LOGGING

Distributed Usage Logging (DUL) is an initiative sponsored by CrossRef that provides a framework for publishers to capture usage of DOI-identified content items that occurs on other web sites, such as aggregators, repositories, and scholarly information-sharing sites. The premise behind DUL is that publishers can register a DUL usage logging end-point with CrossRef, which is then mapped to all of the publisher's DOIs. A content site, such as a repository, can use a content item's DOI to look up where the publisher wants a transaction to be logged, then use the standard DUL message structure to log the activity. Using DUL allows a publisher to capture a more complete picture of content usage. The following points cover how DUL may be used with COUNTER statistical reporting:

- DUL is not a replacement for log file analysis or page-tagging approaches. DUL can supplement a publisher's normal usage logging mechanisms, but not replace them.

- DUL-captured usage MUST NOT appear on Standard Views.

- DUL-captured usage may appear on Master Reports.

- DUL-captured usage captured that appears on Master Reports MUST be reported under the platform name where the transaction occurred.

- An organization that supplies usage transactions using DUL MUST include their platform identifier with each transaction, and their platform MUST be registered with COUNTER.

- Reporting usage through DUL is OPTIONAL.

- The publisher receiving transactions through DUL is responsible for performing COUNTER processing to eliminate double-clicks, eliminate robot/crawler or other rogue usage, and perform the actions to identify unique item and unique title metrics.

- Publishers that plan to include usage reported through DUL in their COUNTER Master Reports are responsible for ensuring that DUL-reported usage is included in the audit.

7. PROCESSING RULES
FOR UNDERLYING
COUNTER REPORTING DATA

Usage data collected by content providers for the usage reports to be sent to customers should meet the basic requirement that only intended usage is recorded and that all requests that are not intended by the user are removed.

Because the way usage records are generated can differ across platforms, it is impractical to describe all the possible filters and techniques used to clean up the data. This Code of Practice, therefore, specifies only the requirements to be met by the data to be used for building the usage reports.

7.1 RETURN CODES

Only successful and valid requests MUST be counted. For web server log files successful requests are those with specific W3C Status Codes, codes (200 and 304). The standards for return codes are defined and maintained by W3C (http://www.w3.org/Protocols/HTTP/HTRESP.html). If key events are used, their definition MUST match the W3C standards. (For more information see The Friendly Guide to Release 5: Technical Notes for Content Providers.)

7.2 DOUBLE-CLICK FILTERING

The intent of double-click filtering is to remove the potential of over-counting which could occur when a user clicks the same link multiple times, typically due to a slow internet connection. Double-click filtering applies to all metric types. The double-click filtering rule is as follows:

Double-clicks on a link by the same user within a 30-second period MUST be counted as one action. For the purposes of COUNTER, the time window for a double-click on any page is set at a maximum of 30 seconds between the first and second mouse clicks. For example, a click at 10.01.00 and a second click at 10.01.29 would be considered a double-click (one action); a click at 10.01.00 and a second click at 10.01.35 would count as two separate single clicks (two actions).

A double-click may be triggered by a mouse-click or by pressing a refresh or back button. When two actions are made for the same URL within 30 seconds the first request MUST be removed and the second retained.

Any additional requests for the same URL within 30 seconds (between clicks) MUST be treated identically: always remove the first and retain the second.

There are different ways to track whether two requests for the same URL are from the same user and session. These options are listed in order of increasing reliability, with Option 4 being the most reliable.

1. **If the user is authenticated only through their IP address, that IP combined with the browser's user-agent (logged in the HTTP header) MUST be used to trace double-clicks. Where you have multiple users on a single IP address with the same browser user-agent, this can occasionally lead to separate clicks from different users being logged as a double click from one user. This will only happen if the multiple users are clicking on exactly the same content within a few seconds of each other.**

2. **When a session cookie is implemented and logged, the session cookie MUST be used to trace double-clicks.**

3. **When a user cookie is available and logged, the user cookie MUST be used to trace double-clicks.**

4. **When an individual has logged in with their own profile, their username MUST be used to trace double-clicks.**

7.3 COUNTING UNIQUE ITEMS

Some COUNTER metric types count the number of unique items that had a certain activity, such as a "Unique_Item_Requests" or "Unique_Item_Investigations".

For the purpose of COUNTER metrics, an item is the typical unit of content being accessed by users, such as articles, book chapters, book sections, whole books (if delivered as a single file), and multimedia content. Ideally, the item MUST be identified using the unique ID which identifies the work (e.g. chapter or article) regardless of format (e.g. PDF, HTML, or EPUB). If no item-level identifier is available, then use the item name in combination with the identifier of the parent item (i.e. the article title + ISSN of the journal, or chapter name + ISBN of the book).

The rules for calculating the unique item counts are as follows:

If multiple transactions qualifying for the metric type in question represent the same item and occur in the same user-sessions, only one "unique" activity MUST be counted for that item.

A user session is defined any of the following ways: by a logged session ID + transaction date, by a logged user ID (if users log in with personal accounts) + transaction date + hour of day (day is divided into 24 one-hour slices), by a logged user cookie + transaction date + hour of day, or by a combination of IP address + user agent + transaction date + hour of day.

To allow for simplicity in calculating session IDs, when a session ID is not explicitly tracked, the day will be divided into 24 one-hour slices and a surrogate session ID will be generated by combining the transaction date + hour time slice + one of the following: user ID, cookie ID, or IP address + user agent. For example, consider the following transaction:

- Transaction date/time: 2017-06-15 13:35

- IP address: 192.1.1.168

- User agent: Mozilla/5.0

- Generated session ID: 192.1.1.168|Mozilla/5.0|2017-06-15|13

The above replacement for a session ID does not provide an exact analogy to a session. However, statistical studies show that the result of using such a surrogate for a session ID results in unique counts are within 1– 2 % of unique counts generated with actual sessions.

7.4 COUNTING UNIQUE TITLES

Some COUNTER metric types count the number of unique titles that had a certain activity, such as a "Unique_Title_Requests" or "Unique_Title_Investigations".

For the purpose of COUNTER metrics, a title represents the parent work that the item is part of. For example, when the "Item" is an article, the "Title" is the journal. When the "Item" is a book chapter or a section, the "Title" is the book. Ideally, the title MUST be identified using a unique identifier (i.e. an ISSN for a journal or ISBN for a book) regardless of format (i.e. PDF or HTML).

The rules for calculating the unique title counts are as follows:

If multiple transactions qualifying for the metric type in question represent the same title and occur in the same user-session, only one "unique" activity MUST be counted for that title.

A user session is defined any of the following ways: by a logged session ID + transaction date, by a logged user ID (if users log in with personal accounts) + transaction date + hour of day (a day is divided into 24 one-hour slices), by a logged user cookie + transaction date + hour of day, or by a combination of IP address + user agent + transaction date + hour of day.

To allow for simplicity in calculating session IDs, when a session ID is not explicitly tracked, the day will be divided into 24 one-hour slices and a surrogate session ID will be generated by combining the transaction date + hour time slice + one of: user ID; cookie ID; or IP address + user agent. For example, consider the following transaction:

- transaction date/time: 2017-06-15 13:35

- IP Address: 192.1.1.168

- User Agent: Mozilla/5.0

- Generated Session ID: 192.1.1.168|Mozilla/5.0|2017-06-15|13

The above replacement for a session ID does not provide an exact analogy to a session. However, statistical studies show that the result of using such a surrogate for a session ID results in unique counts are within 1–2 % of unique counts generated with actual sessions.

7.5 ATTRIBUTING USAGE WHEN ITEM APPEARS IN MORE THAN ONE DATABASE

Content providers that offer databases where a given content item (e.g. an article) is included in multiple databases MUST attribute the Investigations and Requests metrics to just one database. The following recommendations may be helpful when choosing when ambiguity arises:

- Give priority to databases that the institution has rights to access.

- If there is a priority order for databases for search or display within the platform, credit usage to the highest priority database.

- Beyond that, use a consistent method of prioritizing database, such as by database ID or name.

- If none of the above, pick randomly.

7.6 FEDERATED SEARCHES AND AUTOMATED SEARCH AGENTS

Search activity generated by federated search engines and automated search agents MUST be categorized separately from separately from searches conducted by users on the host platform.

Any searches generated from a federated search system MUST be included in the separate "Searches_Federated" counts within Database Reports and MUST NOT be included in the "Searches_Regular" counts.

The most common ways to recognize federated and automated search activity are as follows:

- A federated search engine may be using its own dedicated IP address, which can be identified and used to separate out the activity.

- If the standard HTML interface is being used (e.g. for screen scraping), the user agent within the web log files can be used to identify the activity as coming from a federated search.

- For Z39.50 activity, authentication is usually through a username/password combination. Create a unique username/password that just the federated search engine will use.

- If an API or XML gateway is available, set up an instance of the gateway that is for the exclusive use of federated search tools. It is RECOMMENDED that you also require the federated search to include an identifying parameter when making requests to the gateway.

COUNTER provides lists of user agents that represent the most common federated search tools. See Appendix G.

7.7 DISCOVERY SERVICES AND OTHER MULTIPLE-DATABASE SEARCHES

Search activity generated by discovery systems and other systems where multiple databases not explicitly selected by the end user are searched simultaneously MUST be counted as "Searches_Automated" on database reports. Such searches MUST be included on the platform reports as "Searches _Platform", but only as a single search regardless of the number of databases searched.

Example: A user searches a content site where the librarian has pre-selected 20 databases for business and economics searches. For each search conducted by the user:

- In the Database Report, each of the 20 databases gets credit for 1 "Searches_Automated".

- In the Platform Report, "Searches_Platform" gets credited by 1.

7.8 INTERNET ROBOTS AND CRAWLERS

Activity generated by internet robots and crawlers MUST be excluded from all COUNTER usage reports. COUNTER provides a list of user agent values that represent the crawlers and robots that MUST be excluded. Any transaction with a user agent matching one on the list MUST NOT be included in COUNTER reports.

COUNTER maintains the current list of robots and crawlers, see https://github.com/atmire/COUNTER-Robots

7.9 TOOLS AND FEATURES THAT ENABLE BULK DOWNLOADING

Only genuine, user-driven usage MUST be reported. COUNTER reports MUST NOT include usage that represents requests of full-text content when it is initiated by automatic or semi-automatic bulk download tools where the downloads occur without direct user action.

- Products like Quosa or Pubget MUST only be recorded only when the user has clicked on the downloaded full text article in order to open it.

- Full text retrieved by automated processes such as reference manager software or robots (see section 7.8 above) MUST be excluded.

- Usage that occurs through emailing of a list of articles (requests) or citations (investigations) that was not as a result of a user explicitly selecting the items for sharing MUST be excluded. Note that the act of a user explicitly sharing an item would be considered an "investigation", and a user downloading and then emailing a PDF would also be considered a "request".

7.10 TEXT AND DATA MINING

Text and data mining (TDM) is a computational process whereby text or datasets are crawled by software that recognizes entities, relationships, and actions. (STM Publishers) (1, 2)

TDM does NOT include straightforward information retrieval, straightforward information extraction, abstracting and summarising activity, automated translation, or summarising query-response systems.

A key feature of TDM is the discovery of unknown associations based on categories that will be revealed as a result of computational and linguistic analytical tools.

Principles for reporting usage:

- COUNTER does not record TDM itself, as most of this activity takes place after an article has been downloaded. All we can do is track the count of articles downloaded for the purposes of mining.

- Usage associated with TDM activity (e.g. articles downloaded for the purpose of TDM) MUST be tracked by assigning an "Access_Method" of "TDM".

- Usage associated with TDM activity MUST be reported using the Title Master, Database, and Platform Reports by identifying such usage as "Access_Method"="TDM".

- Usage associated with TDM activity MUST NOT be reported in Standard Views (TR_J1, TR_B1, etc.).

Detecting activity related to TDM:

TDM activity typically requires a prior agreement between the content provider and the individual or organization downloading the content for the purpose of text mining. The content provider can isolate TDM-related traffic using techniques like:

- Providing a dedicated end-point that is specifically for TDM data harvesting.

- Requiring the use of a special account or profile for TDM data harvesting.

- Assigning an APIKey that would be used for the harvesting.

- Registering the IP address of the machine harvesting content.

Harvesting of content for TDM without permission or without using the endpoint or protocol supplied by the content provider MUST be treated as robot or crawler traffic and MUST be excluded from all COUNTER reports.

8. SUSHI FOR AUTOMATED REPORT HARVESTING

Content providers MUST support automatic harvesting of COUNTER reports via the SUSHI protocol as described in the NISO SUSHI Standard (Z39.93-201x). Specifications for the RESTful COUNTER_SUSHI API are found here: https://app.swaggerhub.com/apis/COUNTER/counter-sushi_5_0_api/1.0.0

8.1 COUNTER_SUSHI API PATHS TO SUPPORT

The following paths (methods) MUST be supported:

Path	Description
GET /status	Returns the current status of the COUNTER_SUSHI API service. This path returns a message that includes the operating status of the API, the URL to the service's entry in the Register of COUNTER Compliant Content Providers, and an array of service alerts (if any).
GET /reports	Returns a list of reports supported by the COUNTER_SUSHI API service. The response includes an array of reports, including the report identifier, the release number, the report name, a description, a list of supported report filters, and a list of supported report attributes.
GET /reports/{ReportID}	Each supported report will have its own path, e.g. GET /reports/TR_B1 for book requests (excluding "OA_Gold"), GET /reports/TR_J1 for journal requests (excluding "OA_Gold")
GET /members	Returns the list of consortium members or sites for multi-site customers. The response includes an array of customer account information including for each, including the customer identifier (to use when requesting COUNTER reports), the requestor identifier (to use when requesting COUNTER reports), the customer account name, and additional identifiers for the organization (if any). Note that if the customer identifier specified in the parameter for the /members path is not a multi-site organization, then the response will simply return the details for that customer.

8.2 AUTHENTICATION AND SECURITY FOR COUNTER_SUSHI API

The COUNTER_SUSHI API MUST be implemented using TLS (HTTPS).

The API MUST be secured using one or more of the following methods:

- Combination of customer ID and requestor ID

- IP Address of the COUNTER_SUSHI client

- APIKey assigned to the organization harvesting the usage

Non-standard techniques for authentication (techniques not specified in the COUNTER_SUSHI specifications) MUST NOT be used.

If IP address authentication is implemented, it MUST allow the same COUNTER_SUSHI client (a single IP address) to harvest usage for multiple customer accounts (i.e. hosted ERM services).

8.3 REPORT FILTERS AND REPORT ATTRIBUTES

The COUNTER_SUSHI API Specification allows report responses to be customized to the caller's needs using report filters and report attributes. For Standard Views, these filters and attributes are implicit. For the Master Reports, the filters and attributes will be explicitly included as parameters on the COUNTER_SUSHI request.

Refer to the https://app.swaggerhub.com/apis/COUNTER/counter-sushi_5_0_api/1.0.0 for the list of filters and attributes supported by the various COUNTER reports.

8.4 COUNTER_SUSHI ERRORS AND EXCEPTIONS

Implementations of COUNTER_SUSHI MUST comply with the warnings, exceptions and errors are described in the COUNTER_SUSHI specification. Refer to Appendix F for a list of warnings, errors, and exceptions.

9. AUDIT

An important feature of the COUNTER Code of Practice is that compliant content providers (including third-party services providing stats on behalf of content providers) MUST be independently audited on an annual basis in order to maintain their COUNTER-compliant status. To facilitate this, a set of auditing standards and procedures has been published in Appendix E of this Code of Practice. COUNTER has tried to meet the need of customers for credible usage statistics without placing an undue administrative or financial burden on content providers. For this reason, audits will be conducted online in accordance with the program included in the auditing standards and procedures (Appendix E).

The independent audit is REQUIRED within six months of a content providers first self-certifying their compliance with the COUNTER Code of Practice for e-Resources, and annually thereafter. COUNTER will recognize an audit carried out by any Certified Public Accountant (CPA) in the USA, by any Chartered Accountant (CA) in the UK, or by their equivalent in other countries. Alternatively, the audit may be done by COUNTER-approved auditor, such as ABC, which is not a CA or a CPA. (Contact COUNTER for a list of approved auditors.)

9.1 THE AUDIT PROCESS

- COUNTER-compliant content providers are required to schedule an audit in time for the audit due date listed on their entry on the COUNTER website (https://www.projectcounter.org/about/register/).

- At least one month before the audit due date, content providers MUST advise COUNTER the name of the organization that will carry out the audit. Any queries about the audit process may be raised at this time.

- Irrespective of the auditor selected, the audit MUST adhere to the requirements and use the program specified in Appendix E of this Code of Practice. The audit is carried out in three stages. Stage 1 covers the format and structure of the usage reports. In Stage 2 the auditor tests the integrity of the reported usage statistics by creating their own usage on a sample basis and subsequently reviewing the usage reports for this activity. In Stage 3 the auditor checks that the delivery of the usage reports adheres to the COUNTER requirements.

- Upon completion of the audit the auditor is REQUIRED to send a signed copy of the audit report to the COUNTER office (compliance@counterusage.org). On receipt of the successful audit report, the content provider will be sent a dated COUNTER logo, which they can display on their website. For example:

COUNTER

- The dated logo MUST link to the content provider's entry on the COUNTER website.

- Failure to complete a successful audit by the due date may result in COUNTER removing that content provider from the list of compliant content providers on the COUNTER website.

Note that COUNTER has provided a COUNTER Report Validation Tool to allow content providers and auditors to quickly perform compliance checks related to format. It is highly RECOMMENDED for content providers to use this tool to check their reports and SUSHI implementation before they begin the audit.

9.2 CATEGORIES OF AUDIT RESULT

There are three categories of audit result, as follows:

- **Pass** - No further action is required by the content provider as a result of the audit. In some cases, the auditor may add observations to the audit report, which are intended to help the content provider improve its COUNTER usage reports, but are not required for compliance.

- **Qualified Pass** - The content provider has passed the audit, but the auditor raises a minor issue requiring further action to maintain COUNTER-compliant status. A minor issue does not affect the reported figures, but MUST be resolved within three months of the audit to maintain COUNTER-compliant status. An example of a minor issue is where a report format does not conform to the COUNTER specifications.

- **Fail** – The auditor has identified an issue that MUST be resolved within 3 months for the content provider to maintain COUNTER-compliant status.

9.3 TIMETABLE AND PROCEDURE

R5 of the COUNTER Code of Practice for e-Resources, published in in July 2017, will become the only valid version of the Code of Practice from 1 January 2019.

Applications for COUNTER-compliant status

- A register of content providers and their platforms for which COUNTER-compliant usage reports are available is maintained by COUNTER and posted on the COUNTER website - https://www.projectcounter.org/about/register/

- Content providers may apply to the Project Director (compliance@counterusage.org) for their products to be included on the register. Content providers will have to provide proof of initial compliance by including the results of COUNTER Report Validation Tool tests showing compliance for each of its reports, including testing both the upload of the tabular reports and SUSHI harvesting of the same report. Upon receipt of the application and proof

of compliance, content providers MUST allow at least one of the COUNTER library test sites to evaluate their usage reports.

- When the usage reports are deemed to comply with the COUNTER Code of Practice, the content provider will be asked to sign a Declaration of COUNTER Compliance (Appendix C), after which the content provider and its platforms will be added to the register.

- Within six months a report from an independent auditor confirming that the usage reports and data are indeed COUNTER-compliant will be required. See Appendix E for a description of the auditing program.

- The signed declarations MUST be sent to the COUNTER office (compliance@counterusage. org) as email attachments.

9.4 RIGHT TO USE COUNTER-COMPLIANCE LOGO AND DESIGNATION

Content providers who have had their application accepted by COUNTER but have not yet completed a successful audit may use the designation "COUNTER Compliance Pending". Only content providers that have passed the audit can use the designation "COUNTER Compliant" and the dated COUNTER logo.

Content providers who have not applied for compliance or whose compliance has lapsed MUST NOT claim or imply COUNTER compliance on their site, in licenses, or in their marketing and do not have the rights to use the COUNTER name or logo.

10. OTHER COMPLIANCE TOPICS

Content providers seeking COUNTER compliance are expected to comply with the following.

10.1 INCLUDING COUNTER IN LICENCE AGREEMENTS

To encourage widespread implementation of the COUNTER Code of Practice, customers are urged to include the following clause in their licence agreements with content providers:

'The licensor confirms to the licensee that usage statistics covering the online usage of the products covered by this licence will be provided. The licensor further confirms that such usage statistics will adhere to the specifications of the COUNTER Code of Practice, including data elements collected and their definitions; data processing guidelines; usage report content, format, frequency and delivery method'.

10.2 CONFIDENTIALITY OF USAGE DATA

10.2.1 Privacy and User Confidentiality

Statistical reports or data that reveal information about individual users will not be released or sold by content providers without the permission of that individual user, the consortium, and its member institutions (ICOLC Guidelines, October 2006)

10.2.2 Institutional or Consortia Confidentiality

Content providers do not have the right to release or sell statistical usage information about specific institutions or the consortium without permission, except to the consortium administrators and other member libraries, and to the original content provider and copyright holder of the content. Use of institutional or consortium data as part of an aggregate grouping of similar institutions for purposes of comparison does not require prior permission as long as specific institutions or consortia are not identifiable. When required by contractual agreements, content providers, such as aggregators, may furnish institutional use data to the original content providers. (Based on ICOLC Guidelines, October 2006).

10.3 COUNTER REPORTING FOR CONSORTIA

Consortia license content for their members and consortium administrators need access to COUNTER statistics that show how each member has used the licensed resources.

10.3.1 Access to SUSHI Credentials for Member Sites

Content providers MUST support the /members SUSHI path to provide consortium with the list of their members on the platform and the SUSHI credentials for each. This will enable tools to be created to efficiently retrieve member usage and create separate or consolidated reporting.

10.3.2 Privacy and Confidentiality

COUNTER acknowledges that some organizations treat their usage data as sensitive and private information. Content providers may include the option for consortium members to opt-out of consortium reporting. COUNTER recommends the default setting for an organization is to opt-in to consortium reporting.

10.3.3 Content to Report Usage On

When a COUNTER report is harvested by a consortium administrator, a content provider may choose to limit member usage to include only content acquired through the consortium. Note that when such a limitation is in place the resulting report may differ from the member-site's own version of the report. Since not all content providers can provide such limits, the consortium will be responsible for ensuring usage is filtered to the content they license for members.

When the content provider chooses to limit member usage to only content acquired through the consortium, they MUST include a message to this effect in the **Notes** element in their implementation of the **/members** path in the COUNTER_SUSHI API. See Section 8 above.

10.3.4 Detailed versus Summary Reports

A content provider MUST offer the option to provide consortium-level summary of usage for content licensed by the consortium. For a consortium summary report (usage for all members of the consortium rolled up at the consortia level), COUNTER acknowledges that the totals on the summary report may differ from the sum of the totals on individual member reports for the same items if an authentication method used identifies to multiple member sites and usage it attributed to each such site (i.e. overlapping IP ranges).

10.3.5 SUSHI Service Limits

The content provider MUST NOT place limits on the SUSHI service (such as requests per day or amount of data transferred) that would prevent a consortium from retrieving reports for all its members.

11. EXTENDING THE CODE OF PRACTICE

COUNTER recognises that some content providers may want to provide customized versions of COUNTER reports to address reporting needs specific to their platform and content. This section describes a method of extending the Code of Practice that avoids creating conflicting custom implementations between content providers.

11.1 PLATFORM AS A NAMESPACE

Content providers and other organizations providing COUNTER reports wishing to create custom reports or introduce custom elements or element-values can do so by using their platform identifier as a namespace. For example, if EBSCO wanted to create a customized version of the Journal Requests (excluding "OA_Gold") View for their link resolver product that includes a new metric type for counting link-outs, they could do this by naming the report "ebscohost:TR_J1" and creating a new metric value of "ebscohost:total_link-outs".

The namespace MUST only contain ASCII characters (a–z, A–Z, 0–9). No spaces or punctuation is allowed.

COUNTER will assign the platform ID when adding the platform to their Registry of Compliance (content providers can suggest a value to be used for their platform ID). Other organizations providing COUNTER reports, such as consortia or ERM providers, may contact COUNTER to register a namespace if they desire create extensions and customizations. COUNTER will maintain a list of approved namespaces.

11.2 CREATING CUSTOMIZED COUNTER REPORTS

Customized versions of COUNTER reports can be created as long as the general layout for COUNTER reports is followed. New reports MUST be given a shortname (for SUSHI) in the format of "*namespace:report_ID*" and a long name of "*namespace:report_Name*". Examples of custom reports could be:

Report ID	Report Name
ebscohost:LR1	ebscohost:Link Out Report 1

11.3 CREATING NEW ELEMENTS (REPORT COLUMNS)

New elements or column headings can be added to the Master Reports (PR, DR, TR, IR). The element name MUST take the form of "*namespace:elementName*". Example of custom elements (column heading) could include:

- "isi:Impact_Factor"

11.4 CREATING NEW VALUES FOR ENUMERATED ELEMENTS AND ATTRIBUTES

Several report elements and attributes in COUNTER reports include a controlled list of possible values. On occasion, a content provider may want to introduce additional values that better reflects their content and platform. The element value lists can be extended by including additional values in the form of "*namespace:element_Value*". An example of a custom metric type could be "ebscohost:total_linkouts". The following is the list of elements that can be extended in this manner.

- "Data_Type"

- "Section_Type"

- "Access_Type"

- "Access_Method"

- "Metric_Type"

Note that values for identifier fields ("Institution_ID", "Publisher_ID", etc.) MUST also include the type/namespace for these identifiers. For proprietary identifiers that are platform-specific, the platform ID should be used as the type/namespace.

11.5 RESERVED VALUES AVAILABLE FOR EXTENDING REPORTS

This Code of Practice recognizes that there are some common extensions that content providers might want to include in Master Reports or when creating custom reports; therefore, the following element names and element values have been reserved for this common use.

Reserved Name	Description	Use-case
"Customer_ID"	An element name/column heading for the body of the report	When a report contains usage for multiple organizations.
"Customer_Name"	An element name/column heading for the body of the report	When a report contains usage for multiple organizations.

"Format"	An element name used to identify the format of the content. Reserved Values include: "HTML" "PDF" "Other"	By tracking the format, the content provider can use R5 usage logs to generate R4 usage reports during the transition period.

11.6 RESTRICTIONS IN USING CUSTOMIZED ELEMENTS AND VALUES

Report extensions can be used in custom view as well as in Master Reports. If extensions are introduced to a Master Report, it MUST be possible for a user to exclude extended elements and values from the report if desired.

Extensions MUST NOT be used with Standard Views.

12. CONTINUOUS MAINTENANCE

With R5, the COUNTER Code of Practice will operate under a continuous maintenance procedure to allow incremental changes to be made to the Code of Practice without creating a completely new release. This section describes those procedures.

12.1 INSTRUCTIONS FOR SUBMITTAL OF PROPOSED CHANGE

Changes and updates to the COUNTER Code of Practice can be submitted by anyone. Submissions MUST be made via email and directed to compliance@counterusage.org. Each idea for submission MUST include:

- Submitter contact information:

    - Name

    - Email

    - Phone

    - Affiliation

- Description of the enhancement/adjustment (include the section and paragraph number of the current Code of Practice if applicable)

- Reason for the change (use case and/or goals to be accomplished)

- Any relevant attachments

12.2. REVIEW OF CHANGE REQUESTS

All submissions received will be acknowledged and forwarded to the COUNTER Executive Committee for consideration within 30 days of receipt.

12.3. RESOLUTION OF PROPOSED CHANGES

12.3.1 Responding to Submissions

COUNTER Executive Committee (EC) will review submissions and provide a response within 90 days of receipt (to allow discussion at a regularly scheduled EC meeting). The EC will respond to every submission with one of the following, and providing clarity when needed:

- Proposed change accepted without modification

- Proposed change accepted with modification

- Proposed change accepted for further study

- Proposed change rejected

If further study is needed, the EC may convene a separate working group to study the proposal and make recommendations related to the suggested comments.

12.3.2 Approval of Changes

Changes that are substantive in nature (i.e. would require changes to how reports are generated or consumed) will be presented to COUNTER membership for comments for a period of at least 45 calendar days. All member comments MUST be considered and responded to by the EC or the designated working group.

After the comment period, changes to the COUNTER Code of Practice MUST be voted upon by the COUNTER Executive Committee and approved by committee majority. EC Members can respond to a ballot by voting Yes, No or Abstain. For clarity, the number of affirmative votes MUST be greater than 50% of the total number of EC members minus abstentions (a non-vote is considered a "No" vote.)

12.3.3 Communication of Changes

COUNTER will inform the COUNTER membership about upcoming changes to the COUNTER Code of Practice through email. Additionally, proposed and pending changes will be published on the Usus website and through posting on listservs that discuss usage topics.

12.3.4 Version and Change Control

Each update to the COUNTER Code of practice will generate a new version number (i.e. the initial release of "R5" will be designated as version 5.0. A non-substantive change (fixing typographical errors) would increment the version by .01, creating version 5.01. A substantive change (requiring changes in implementation of the Code of Practice) would increment the version by .1, creating version 5.1.

All changes included in each release will be included in the Change History section of the Code of Practice. The prior release will be archived as a PDF document and access to that release provided via the COUNTER website.

12.4 IMPLEMENTATION SCHEDULE

Changes to the COUNTER Code of Practice may be non-substantive or substantive. A non-substantive change may be a clarification or correction of typographical errors that does not affect how the Code of Practice is implemented. A substantive change is one that would affect the implementation of the COUNTER Code of Practice. Examples of substantive changes are adding a new metric type or report, changing the requirement for including a data element from "may" to "MUST", or changing processing rules.

Non-substantive changes can become effective immediately upon publication of the new version of the Code of Practice.

Substantive changes become effective for a given content provider within 12 months of publication of the new release or with the next audit, whichever date is later.

Substantive changes will be clearly identified in the change-log addendum to ensure they can be easily identified.

All other requirements of the Code of Practice will remain in effect during the implementation period for changes brought about by a new release.

13. TRANSITIONING FROM PREVIOUS RELEASES OR TO NEW REPORTING SERVICES

A requirement of the COUNTER Code of Practice is that content provider's offer libraries access to the current year plus the prior 24 months of usage from the date they first became compliant, whichever is later. This requirement must continue to be met even when a provider may be transitioning to a new release of the COUNTER Code of Practice or if they are moving to a new reporting service.

13.1 TRANSITIONING TO A NEW REPORTING SERVICE

When a content provider implements a new reporting service, underlying logging system, or approach, they:

- MUST continue to meet the requirement to offer valid COUNTER reports for the current year plus the prior 24 months (or since the date they first became compliant, whichever is later) via a web interface and via a SUSHI server.

- MUST support COUNTER reports that may include a range of months that span the transition period. If the new reporting service was deployed in August of 2017, a customer could request a report for January December 2017 and receive a single report.

- When it is not practical to support a single report with date ranges that span the transition period, the content provider MUST perform the transition on the first day of a month. If the new reporting service was deployed in August 2017, a customer wanting January December 2017 usage would request January July 2017 from the previous reporting service and August–December 2017 from the new reporting service. For clarity, a provider MUST NOT perform the transition mid-month such that the customer is required to run reports on both the old and new reporting services for the same month and merge and sum the results to obtain actual monthly usage.

13.2 TRANSITIONING TO A NEW CODE OF PRACTICE

New releases of the COUNTER Code of Practice will typically be assigned an effective date after which a content provider must be compliant. In such cases, a content provider may choose to implement the new release before the effective date. New releases of the COUNTER Code of Practice may come with specific transition instructions, but in general, content providers:

- May implement the new release prior to the effective date of the new release.

- Are not required to release reports for usage transacted prior to the implementation date; however, they may choose to do so at their discretion.

- MUST continue to meet the requirement offer valid COUNTER reports for the current year plus the prior 24 months (or since the date they first became compliant, whichever is later) via a web interface and via a SUSHI server

- MUST provide a means for customers to receive prior-release reports for usage transacted from the content provider's transition date through to 3 full months after the effective date of the new release. For clarity, if a new release of become effective 01-Feb-2019, and a content provider implements the new release October 1, 2018; a customer must be able to obtain the prior-release usage reports for usage prior the transition period as well as usage the occurred in October 2018 April 2019. A content provider can meet this requirement in one of the following ways:

  - Maintain two reporting systems such that usage is logged to the old and new reporting services and customers can access current-release reports on the new reporting service and prior-release reports on the old reporting service.

  - Support the prior-release reports on the new reporting service. This may involve using the metrics from the new release to produce reports formatted to the prior release; or it may involve logging additional data to the new reporting service such that the prior release reports can continue to be supported.

  - If the new release offers metrics compatible with the prior release, offer only new release reports provided customers have access to freely available tools that will automatically generate the required prior release from an equivalent new release and the meet the requirement that these reports are available in tabular form or via SUSHI.

- May choose to support COUNTER reports that include a range of months that span the transition period. For example,if the new reporting service compliant with a new COUNTER release was deployed in October of 2018, a customer could request a report for JanuaryDecember 2018 and receive a single report in either the new release or the previous release (see previous point on the transition period).

- When it is not practical to support a single report with date ranges that span the transition period, the content provider MUST perform the transition on the first day of a month. For example, if the new reporting service was deployed in October 2018, a customer wanting January December 2018 usage would request January September 2017 from the previous reporting service and October 2018 December 2018 from the new reporting service. For clarity, a provider MUST NOT perform the transition mid-month such that the customer is required to run reports on both the old and new reporting services for the same month and merge and sum the results to obtain actual monthly usage.

13.3 TRANSITIONING FROM COUNTER R4 TO R5

The transition from R4 to R5 meets the general requirements outlined in 13.2.

- Content providers MUST be compliant by February 2019 for delivery of R5 reports starting with January 2019 usage.

- Content providers may choose to release their R5 compliant reporting service before February 2019.

- A content provider's customers MUST be able to obtain R4 compliant reports for that content provider from the time the content providers R5 reporting service was released through to April 2019 (providing access to March 2019 usage). A content provider may provide access to R4 reports beyond April 2019 at their discretion.

- Content providers may choose to meet the requirement to provide R4 report based on R5 metrics. The following R4 reports must be supported (when applicable to the platform): BR1, BR2, BR3, DB1, DB2, JR1, JR2, JR5, and PR1. The following table presents the equivalent metric types by report.

R4 Report	R4 metric	R5 equivalent
BR1	Full text requests (at the book level)	"Unique_Title_Requests" AND "Data_Type=Book"
BR2	Full text requests (at the chapter/section level)	"Total_Item_Requests" AND "Data_Type=Book"
BR3	Access denied—concurrent/simultaneous user limit exceeded	"Limit_Exceeded" AND "Data_Type=Book"
	Access denied—content item not licensed	"No_License" AND "Data_Type=Book"
DB1	Regular searches	"Searches_Regular"
	Searches—federated and automated	SUM ("Searches_Automated", "Searches_Federated")
	Result clicks	"Total_Item_Investigations" attributed to the database
	Record	
	Record views	"Total_Item_Investigations" attributed to the database. (Note that resulting result-click and record view counts will be the same -librarians should use one or the other and not add them up).
DB2	Access denied—concurrent/simultaneous user limit exceeded	"Limit_Exceeded" AND "Data_Type=Database"
	Access denied— content item not licensed	"No_License" AND "Data_Type=Database"

JR1	Full Text Requests	"Total_Item_Requests"
	HTML requests	Leave blank unless format of HTML and PDF are also logged in which case: "Total_Item_Requests" AND "format=HTML"
	PDF requests	Leave blank unless format of HTML and PDF are also logged in which case: "Total_Item_Requests" AND "format=PDF"
JR2	Access denied—concurrent/simultaneous user limit exceeded	"Limit_Exceeded" AND "Data_Type=Journal"
	Access denied—content item not licensed	"No_License" AND "Data_Type=Journal"
JR5	Full text requests (by year of publication)	"Total_Item_Requests" AND "Data_Type=Journal" pivot on "YOP"
PR1	Regular searches	"Searches_Platform"
	Searches—federated and automated	Leave blank (Searches performed on the platform via federated and automated searching are included in "Searches_Platform".)
	Result clicks	SUM ("Total_Item_Investigations" attributed to the databases)
	Record views	SUM ("Total_Item_Investigations" attributed to the databases). (Note that resulting result—click and record view counts—will be the same. Librarians should use one or the other and not add them up.)

14. CHANGE HISTORY

Release	Description of Change	Substantive?	Date approved	Date for compliance
5.0	New Code of Practice, R5 to replace R4	Yes		28-Feb-2019 (with support for January 2019 usage)

APPENDICES

The content found in the appendices are provided for guidance and to help clarify the Code of Practice.

Appendix A   Glossary of Terms

Appendix B   Changes from Previous Releases

Appendix C   Content Provider Declaration of COUNTER Compliance

Appendix D   Technical Guide

Appendix E   Audit Requirements and Tests

Appendix F   Handling Errors and Exceptions

Appendix G   List of Federated Search Products

Appendix H   Sample COUNTER Master Reports and Views

Appendix I   List of Internet Robots, Crawlers, and Spiders

APPENDIX A GLOSSARY OF TERMS

Term	Definition	Examples/formats Definition
A&I database	A non-full-text database that typically contains article metadata, abstracts, and subject classifications. Used by researchers to locate publications relevant to their research.	PubMed, PsycInfo
A&I service	A vendor or website that provides A&I databases	American Psychological Association (APA)
Abstract	A short summary of an article or content item. A detailed view of article metadata that includes the summary but not the full text. Accessing the abstract/detailed view falls into the usage category of "Investigations".	
Abstract and Index Database Host	See A&I service	APA, EBSCOhost, ProQuest
Access denied	User is denied access to a content item because their institution lacks a proper license or because simultaneous user limits specified in the license have been exceeded	
Access denied: limit_exceeded	User is denied access to a content item because the simultaneous user limit for their institution's license would be exceeded.	
Access denied: no_license	User is denied access to a content item because the user or the user's institution does not have access rights under an agreement with the vendor	
Access_Method	A COUNTER attribute indicating whether the usage related to investigations and requests was generated by a human user browsing and searching a website ("Regular") or by Text and Data Mining processes ("TDM")	Regular, TDM
Access_Type	A COUNTER attribute used to report on the nature of access control restrictions, if any, placed on the content item at the time when the content item was accessed.	Controlled, OA_Gold_APC, OA_Gold_Non_APC, OA_Delayed, Other_Free_to_Read
Aggregated full content database	A database that contains full-text articles and possibly non-textual content (beyond bibliographic information) and that is sold as a self-contained/pre-set grouping of data	Academic Search Complete
Aggregated full content database host	A content host that provides access to aggregated full content databases	EBSCOhost, ProQuest

Aggregator	A type of content provider that hosts content from multiple publishers, delivers content direct to customers, and is paid for this service by customers	EBSCOhost, Gale, Lexis Nexis, ProQuest
Article	An item of original written work published in a journal, other serial publication, or in a book. A COUNTER Data_Type	
Article header	See *Metadata*	
Article_Version	Defined by ALPSP and NISO, a classification of the version of an article as it goes through its publication life-cycle. An element on a COUNTER Expanded Item report that identifies the version of the article being accessed. Typically COUNTER usage reporting only reflects usage of the following article versions (of the 7 versions defined by the ALPSP/NISO JAV Technical Working Group): Accepted Manuscript (AM); Version of Record (VoR); Corrected Version of Record (CVoR); Enhanced Version of Record (EVoR)	AM, VoR, CVoR, EVoR
Articles in press	Full-text articles that have been accepted for publication in a journal and have been made available online to customers and that will be assigned a publication date of the current year or a future year	
Author(s)	The person/people who wrote/created the items whose usage is being reported	
Automated search	A search from a discovery layer or similar technology where multiple databases are searched simultaneously with a single query from the user interface. The end user is not responsible for selecting which databases are being searched. Usage of this nature is reported as "Searches_Automated". A search run repeatedly (i.e. daily or weekly) by a script or automated process. Usage of this nature must not be included in COUNTER reports.	
Automated search agent	A script or automated process that runs a search repeatedly, usually at pre-set intervals such as daily or weekly	
AV play event	A client-side play event representing the start of data processing made by a valid browser, which is not recorded concurrently with an event of the same type (JICWEBS). AV play events would be reported using the "requests" category of metric types.	
AV request	See *AV play event*	

Backfile	See *Archive*	
Book	A non-serial publication of any length available in print (in hard or soft covers or in loose-leaf format) or in electronic format A COUNTER Data_Type	
Book section	See *Section_Type*	
Book segment	See *Section_Type*	
Bulk download	A single event where multiple content items are downloaded to the user's computer	
Cache	Automated system that collects items from remote servers to serve closer and more efficiently to a given population of users. Often populated by robots or modern browsers. Note: Publishers take steps to prevent local caching of their content, i.e. including appropriate headers on their site to restrict caching.	
Chapter	A subdivision of a book or of some categories of reference work, usually numbered and titled A COUNTER Section_Type	
Collection	A subset of the content of a service. A collection is a branded group of online information products from one or more vendors that can be subscribed to/ licensed and searched as a complete group. For the COUNTER reporting is restricted to pre-set collections that are defined like databases. See *Database*. Note: A package or bundle provided by a publisher is not considered a database or a collection.	
Component	A uniquely identifiable constituent part of a content item composed of more than one file (digital object) See *Item_Component*	
Consortium	A group of institutions joining together to license content	Ohiolink
Consortium member	An institution that has obtained access to online information resources as part of a consortium A consortium member is defined by a subset of the consortium's range of IP addresses or by other specific authentication details.	Ohio State University
Content host	A website that provides access to content typically accessed by patrons of libraries and other research institutions	

Content item	A generic term describing a unit of content accessed by a user of a content host. Typical content items include articles, books, chapters, multimedia, etc.	
Content provider	An organization whose function is to commission, create, collect, validate, host, distribute, and trade information in electronic form	Any publisher, the Metropolitan Museum, Magnum, JSTOR
Controlled	An access type. At the time of the transaction, the content item was not open (i.e. behind a paywall) because access is restricted to authorized users. Access of content due to a trial subscription would be considered "Controlled" not "Other_Free_to_Read".	
COUNTER compliance pending	Status of a vendor who is currently not compliant but whose audit is in progress or scheduled	
Customer	An individual or organization that access a specified range of the vendor's services and/or content and is subject to terms and conditions agreed with the vendor	
Customer_ID	The field in the COUNTER reports that indicates whose usage is being reported. May be a proprietary or standard value such as ISNI.	ISNI=000000012150090X
Customer-authenticated user	User authentication is provided by a referring service that has an agreement with the online resource that allows the referring services own users access to the online resource	Referring URL, Athens
Data repository	A content host that provides access to research data	Figshare
Data Types, Data_Type	The field identifying type of content. COUNTER recognizes the following Data Types: Article Book Book Segment Collection Database Dataset Journal Multimedia Platform Repository Item	
Database	A collection of electronically stored data or unit records (facts, bibliographic data, texts) with a common user interface and software for the retrieval and manipulation of data (NISO) A COUNTER Data_Type used when reporting search activity at the database level	Social Science bstracts, Reaxys

Dataset	See *Data_Type*	
Delayed open access	See *OA_Delayed*	
Discovery service	An online information host that provides that capability for the users to search a wide variety of content from a single search interface. Access to content is facilitated through direct access to content hosted on the site as well as through a variety of linking technologies to access content at other content sites.	EDS, Primo, Summon
Discovery services provider	An organization that hosts a discovery service	EBSCOhost (EDS), ProQuest (Primo/Summon)
DOI (digital object identifier)	The digital object identifier is a means of identifying a piece of intellectual property (a creation) on a digital network, irrespective of its current location (www.doi.org) DOIs may be assigned at the title, article/chapter, or component level	
Double-click	A repeated click on the same link by the same user within a period of 30 seconds COUNTER requires that double-clicks must be counted as a single click.	
eBook host	A content host that provides access to eBook and reference work content	EBL, EBSCOhost, ScienceDirect
eBook, E-Book	Monographic content that is published online	
eJournal	Serial content that is published online	
eJournal host	A content host that provides access to online serial publications (journals, conferences, newspapers, etc.)	ScienceDirect
Embargo period	The period of time before an article is moved out from behind the paywall, i.e. from "Controlled" to "OA_Delayed"	
ErrorNo	A unique numeric code included as part of a COUNTER SUSHI exception that identifies the type of error that applies to a report	
Exception_Description	An element that is part of a COUNTER_SUSHI exception that describes an error identified by an Error_No.	
Exceptions	An optional element that may be included with a COUNTER report indicating of some difference between the usage that was requested and the usage that is being presented in the report. An exception includes the following elements: Error_No Exception_Description Data	3040: Partial Data Returned (request was for 2016-01-01 to 2016-12-31, but usage is only available to 2016-08-30).

Master Reports	Reports that contain additional filters and breakdowns beyond those included in the standard COUNTER reports	
Database Master Report	Reports that contain additional filters and breakdowns beyond those included in the standard COUNTER reports and are aggregated to the database level	
Item Master Report	Reports that contain additional filters and breakdowns beyond those included in the standard COUNTER reports and are reported at the content item level, such as individual articles, books, and chapters	
Platform Master Report	Reports that contain additional filters and breakdowns beyond those included in the standard COUNTER reports and are aggregated to the platform level	
Title Master Report	Reports that contain additional filters and breakdowns beyond those included in the standard COUNTER reports and are aggregated to publication title level rather than towards individual articles/chapters	
Federated search	A federated search application that allows users to simultaneously search multiple databases hosted by the same or different vendors with a single query from a single user interface. The end user is not responsible for selecting the database being searched.	MetaLib, EBSCOhost Connection
Filters	A limit or restrictions placed on the usage to be included in a COUNTER report usually expressed as a name-value pair, e.g. Access_Type=Controlled	Metric_Type, Access_Type
Full-content aggregation	See *Full-text database*	
Full-text database	A database that consists of full-text articles or other non-textual content beyond bibliographic information and that is sold as a self-contained/ pre-set grouping of data	
Full-text article	The complete text—including all references, figures, and tables—of an article, plus links to any supplementary material published with it	
Gaming	When a user generates multiple requests to a content item with the purpose to increase its usage numbers	
Gold Open Access	See *OA_Gold*	
Host	See *Content host*	*Ingenta, Semantico, SpringerLink*
Host site	See *Content host*	

Host Types	Types of content hosts	• E-Journal
		• eBook
		• Multimedia
		• Aggregated Full Content
		• A&I Database
		• Discovery Service
		• Repository
		• Data Repository
		• Scholarly Collaboration Network
Host UI, host-site UI	User interface that an end user would use to access content on the content host.	
Hybrid publication	A publication that is available via a subscription license but also contains articles available as Gold open access	
Institution	The organization for which usage is being reported	
Institution_ID	A unique identifier for an institution. In COUNTER reports the Institution_ID is presented as a combination of the identifier type and its value. Proprietary identifiers that identify the content platform can be used.	isni=000000012150090X ebscohost=s12345
Institution_Name	The field in the COUNTER reports that indicates the name of the institution	
Institutional identifier	See *Institution_ID*	
Internet robot, crawler, spider	Any automated program or script that visits websites and systematically retrieves information from them, often to provide indexes for search engines	
Investigation	A category of COUNTER metric types that represent a user accessing information related to a content item (i.e. an abstract or detailed descriptive metadata of an article) or a content item itself (i.e. full text of an article)	
IP address	Internet protocol (IP) address of the computer on which the session is conducted. May be used by content providers as a means of authentication and authorization and for identifying the institution a user is affiliated with. The identifying network address (typically four 8-bit numbers: aaa.bbb.cc.dd) of the user's computer or proxy	
ISBN (International Standard Book Number)	A unique 13-digit number used to identify a book	

ISNI (International Standard Name Identifier)	A unique number used to identify authors, contributors, and distributors of creative works, including researchers, inventors, writers, artists, visual creators, performers, producers, publishers, aggregators, etc. COUNTER defines ISNI as an optional identifier for an institution.	
ISSN (International Standard Serial Number)	A unique 8-digit number used to identify a print or electronic periodical publication. A periodical published in both print and electronic form may have two ISSNs, a print ISSN and an electronic ISSN.	
Issue	A collection of journal articles that share a specific issue number and are presented as an identifiable unit online and/or as a physically bound and covered set of numbered pages in print	
Issue date	The date of release by the publisher to customers of a journal issue When used for COUNTER YOP (year of publication) reporting, the issue date of the print should be used when print and online issue dates differ.	
Item	Collective term for content that is reported at a high level of granularity, e.g. a full-text article (original or a review of other published work), an abstract or digest of a full-text article, a sectional HTML page, supplementary material associated with a full-text article (e.g. a supplementary data set), or non-textual resources such as an image, a video, audio, a dataset, a piece of code, or a chemical structure or reaction	Full text article, TOC, Abstract, Database record, Dataset, Thesis
Item Reports	A series of COUNTER reports that provide usage data at the item or item-component level	
Item_Component	A series of elements in a COUNTER Item Report that describe a uniquely identifiable constituent part(s) of a content item composed of more than one digital file	
Total_Item_Requests	A COUNTER Metric_Type that represents the number of times users requested the full content (i.e. full text) of an item. Requests may take the form of viewing, downloading, emailing, or printing content provided such actions can be tracked by the content provider's server.	
Total_Item_ Investigations	A COUNTER Metric_Type that represents the number of times users accessed the content (i.e. full text) of an item, or information describing that item (i.e. an abstract)	
Journal	A serial that is a branded and continually growing collection of original articles within a particular discipline A COUNTER data type	Tetrahedron Letters

Journal DOI	See *DOI*	
Journal Reports	See *Title Reports*	
License	A contract or agreement that provides an organization or individual (licensee) with the right to access certain content	
Limit_Exceeded	A COUNTER Metric_Type. User is denied access to a content item because the simultaneous user limit for their institution's license would be exceeded	
Logfile analysis	A method of collecting usage data in which the web server records all of its transactions	
Metadata	A series of textual elements that describes a content item but does not include the item itself. For example, metadata for a journal article would typically include publisher, journal title, volume, issue, page numbers, copyright information, a list of names and affiliations of the authors, author organization addresses, the article title and an abstract of the article, and keywords or other subject classifications	
Metadata provider	An organization, such as a publisher, that provides descriptive article/item-level metadata to an online search service	
Metric Types, Metric_Types	An attribute of COUNTER usage that identifies the nature of the usage activity	Total_Requests Searches_Regular
Monograph Text	see *Book*	
Multimedia	Non-textual media such as images, audio, and video	
Multimedia collection	A grouping of multimedia items that are hosted and searched as a single unit and behave like a database See also *Database*	
Multimedia full-content unit	A content item that consists of audio/audio-visual material rather than text	Audio, image, video
Multimedia host	A content host that provides access to multimedia content	
Multimedia item	An item of non-textual media content such as an image or streaming or downloadable audio or video files. (Does not include thumbnails or descriptive text/metadata.)	
No_License	A COUNTER Metric_Type. User is denied access to a content item because the user or the user's institution does not have access rights under an agreement with the vendor.	

OA_Delayed	A COUNTER Access_Type At the time of the transaction, the content item was available as open access because publisher's embargo period is expired (delayed open access).	
OA_Gold	A COUNTER Access_Type. At the time of the transaction, the content item was immediately and permanently available as open access because an APC (article processing charge) has been paid. Content items may be in hybrid publication or fully open access publication. Note that content items offered as delayed open access (open after an embargo period) would be classified as OA_Delayed.	
Online_ISSN	A COUNTER Identifier_Type for the ISSN assigned to the online manifestation of a serial work See also *ISSN*	1533-4406
Open access	Online research outputs that are free of all restrictions on access (e.g. access tolls) and free of many restrictions on use (e.g. certain copyright and license restrictions). Open access can be applied to all forms of published research output, including peer-reviewed and non-peer-reviewed academic journal articles, conference papers, theses, book chapters, and monographs. [wikipedia]	
ORCID	An international standard identifier for individuals (i.e. authors) to use with their name as they engage in research, scholarship, and innovation activities A COUNTER Identifier_Type for item contributors See http://orcid.org	
Other_Free_to_Read	A COUNTER Access_Type. At the time of the transaction, the content item was freely available for reading for reasons such as promotions. This also covers all journals where all articles are free to all users because the journal is funded through advertising.	
Page tag	Page tagging is a method of collecting usage data that uses, for example, JavaScript on each page to notify a third-party server when a page is rendered by a web-browser.	
Parent	In COUNTER Item Reports the parent is the publication an item is part of. For a journal article, the parent is the journal, and for a book chapter, the parent is the book.	
Paywall	A term used to describe the fact that a user attempting to access a content item must be authorized by license or must pay a fee before the content can be accessed	

Platform	An interface from an aggregator, publisher, or other online service that delivers the content to the user and that counts and provides the COUNTER usage reports.	Wiley Online Library, HighWire
Platform Reports	A series of COUNTER reports that provide usage aggregated to the platform level	
Print_ISSN	A COUNTER Identifier_Type for the ISSN assigned to the print manifestation of a work See also *ISSN*	0028-4793
Proprietary Identifier	See *Proprietary_ID*	
Proprietary_ID	A COUNTER Identifier_Type for a unique identifier given by publishers and other content providers to a product or collection of products	
Provider Discovery Reports	A series of COUNTER reports that discovery services provide to content providers so that the provider can see how their content is being used	
Provider ID	A unique identifier for a content provider and used by discovery services and other content sites to track usage for content items provided by that provider	
Publication Date, Publication_Date	An optional field in COUNTER item reports and Provider Discovery Reports. The date of release by the publisher to customers of a content item.	
Publisher	An organization whose function is to commission, create, collect, validate, host, distribute and trade information online and/or in printed form	Sage, Cambridge University Press
Publisher_ID	A COUNTER Identifier_Type for a publisher's unique identifier. In COUNTER reports the publisher ID is presented as a combination of identifier type and value.	
Reference work	An authoritative source of information about a subject used to find quick answers to questions. The content may be stable or updated over time.	Dictionary, encyclopedia, directory, manual, guide, atlas, bibliography, index
References	A list of works referred to in an article or chapter with sufficient detail to enable the identification and location of each work	
Regular	A COUNTER Access_Method. Indicates that usage was generated by a human user browsing/ searching a website, rather than by text and data mining processes.	
Report abbreviations	A short name or identifier of COUNTER report used by the COUNTER_SUSHI to specify which report to provide	

Report Attribute, Report_Attributes	In COUNTER reports the report attributes modify how a report is presented. Typically a report attribute will not limit or filter the usage being presented.	Exclude_Report_Header; Attributes_To_ Show=Access_Type|YOP
Report description	The brief description of a COUNTER report	Usage by month and by journal
Report filter	In COUNTER reports the report filter can be used to limit the usage returned in a report.	Data_Type=journal;
Report item attributes	A series of elements that describe the nature of usage for an item and may include access type, YOP, etc.	
Report name	The name of a COUNTER report	Journal Title Report 1
Reporting period, Reporting_Period	The total time period covered in a usage report	
Repository	A host who provides access to an institution's research output. Includes subject repositories, institution, department, etc.	Cranfield CERES
Repository item	A content item hosted in a repository, including that consists of one or more digital objects such as text files, audio, video or data, described by associated metadata.	
Requests	A category of COUNTER Metric Types that represents a user accessing content (i.e. full text of an article)	
Research data	Data that supports research findings and may include databases, spreadsheets, tables, raw transaction logs, etc.	
Scholarly Collaboration Network	A service used by researchers to share information about their work.	Mendeley, Reddit/science
Scholarly Collaboration Network data aggregator	A host who provides access to metrics on communications and interactions on scholarly collaboration networks	Altmetric.com
Search	A user-driven intellectual query, typically equated to submitting the search form of the online service to the server	
Searches_Regular	A COUNTER Metric Type used to report on searches conducted by a user on a host where the user is in control over which databases can be searched. Note: If a search is conducted across multiple databases, each database searched can count that search. See also *Regular Search*	

Searches_Automated	A COUNTER Metric Type used to report searches conducted through a discovery service or by an automated search agent See also *Automated Search*	
Searches_Federated	A COUNTER Metric Type used to report searches conducted through a federated search service See also *Federated search*	
Searches_Platform	A COUNTER Metric Type used to report searches conducted on a platform Note: Searches conducted against multiple databases on the platform will only be counted once.	
Section	The first level of subdivision of a book or reference work	Chapter, entry
Section Types, Section_Type	A COUNTER attribute that identifies the type of section that was accessed by the user	Article, book, chapter
Serial	A publication in any medium issued in successive parts bearing numerical or chronological designations and intended to be continued indefinitely. This definition includes periodicals, newspapers, and annuals (reports, yearbooks, monographic series (NISO)	
Service	See *Content host*	*ScienceDirect, Academic Universe*
Session	A successful request of an online service. A single user connects to the service or database and ends by terminating activity that is either explicit (by leaving the service through exit or logout) or implicit (timeout due to user inactivity) (NISO)	
Session cookie	A data file that a web server can place on a browser to track activity by a user and attribute that usage to a session	
Session ID	A unique identifier for a single user session or, in case of a double-click, multiple clicks on the same link within 30 seconds of each other unique_item and unique_title filters.	
Sites	See *Hosts*	
SUSHI	An international standard (Z39-93) that describes a method for automating the harvesting of reports. COUNTER_SUSHI is an implementation of this standard for harvesting COUNTER reports. COUNTER compliance requires content hosts to implement COUNTER_SUSHI.	

TDM	Text and data mining (TDM) is a computational process whereby text or datasets are crawled by software that recognizes entities, relationships, and actions. (STM Publishers)	
	An Access_Method in a COUNTER report used to separate regular usage from usage that represents access to content for the purposes of text and data mining.	
Text and data mining	See *TDM*	
Title	The name of a book, journal, or reference work	
Title Reports	A series of COUNTER reports where usage is aggregated to the publication title level	
Transaction	A usage event	
Turnaway	See *Access denied*	
Unique_Item_ Investigations	A COUNTER Metric Type that represents the number of unique content items investigated in a user-session. Examples of items are articles, book-chapters, and multimedia files.	
Unique_Item_Requests	A COUNTER Metric Type that represents the number of unique content items requested in a user-session. Examples of items are articles, book-chapters, multimedia files.	
Unique_Title_ Investigations	A COUNTER Metric Type that represents the number of unique titles investigated in a user-session. Examples of titles are journals and books.	
Unique_Title_Requests	A COUNTER Metric Type that represents the number of unique titles requested in a user-session. Examples of titles are journals and books.	
URI	In information technology, a Uniform Resource Identifier (URI) is a string of characters used to identify a resource. Such identification enables interaction with representations of the resource over a network, typically the World Wide Web, using specific protocols. [Wikipedia]	
	An optional element on a COUNTER report used to identify the item for which usage is being reported.	
Usage attributes	Fields or elements used to classify or qualify COUNTER usage for analysis	Access_Type
		Access_Method
		YOP
User	A person who accesses the online resource	

User agent	An identifier that is part of the HTTP/S protocol that identifies the software (i.e. browser) being used to access the site. May be used by robots to identify themselves.	
User session	See *Session*	
Vendor	A publisher or other online information provider who delivers licensed content to the customer and with whom the customer has a contractual relationship	Taylor & Francis, EBSCO
Year of Publication	See *YOP*	
YOP	Calendar year in which an article, item, issue, or volume is published. For the COUNTER_YOP attribute, use the year of publication for the print when it differs from the online.	
Z39.50	An international standard protocol created by NISO for search. A Z39.50 client can search any Z39.50-compatible online service. Often used by federated search services to facilitate searching content at other sites.	

APPENDIX B   CHANGES FROM PREVIOUS RELEASES

1 CHANGES FROM COUNTER RELEASE 4 (R4)

Changes in the nature of online content and how it is accessed have resulted in the COUNTER Code of Practice evolving in an attempt to accommodate those changes. This evolution resulted in some ambiguities and, in some cases, conflicts and confusions within the Code of Practice. Release 5 (R5) of the COUNTER Code of Practice is focused on improving the consistency, credibility, and comparability of usage reporting.

1.1 List of Reports

R5 reduces the overall number of reports by replacing many of the special-purpose reports that are seldom used with four Master Reports and a number of Standard Views that are more flexible. All COUNTER R4 reports have either been renamed or eliminated in favour of other R5 Master Report or Standard View options.

R4 Report	R5 Report/ Status	Comments
Book Report 1: Number of Successful Title Requests by Month and Title	Book Requests (excluding "OA_ Gold")	The "Unique_Title_Requests" is equivalent to the full-text requests in Book Report 1.
Book Report 2: Number of Successful Section Requests by Month and Title	Book Requests (excluding "OA_ Gold")	The "Total_Item_Requests" is equivalent to full-text requests in Book Report 2.
Book Report 3: Access Denied to Content Items by Month, Title, and Category	Book-Access Denied	"Limit_Exceeded" and "No_License" metrics are equivalent to those found in Book Report 3
Book Report 4: Access Denied to Content items by Month, Platform, and Category	Platform Master Report	"Access Denied" statistics at the platform level can be retrieved using the "Platform Master Report".
Book Report 5: Total Searches by Month and Title	Eliminated (no equivalent)	For most platforms, attempting to track searches by titles is not reasonable since all titles are included in most searches.
Book Report 7: Number of Successful Unique Title Requests by Month and Title in a Session	Book Requests (excluding "OA_ Gold")	The "Unique_Title_Requests" is equivalent to the full-text requests in Book Report 7.

Consortium Report 1: Number of Successful Full-Text Journal Article or Book Chapter Requests by Month and Title	Eliminated	Consortium administrators will request "Journal Requests (excluding OA_Gold)" for each member. This can be automated via SUSHI using the /members path. Tools will be provided to create consolidated reports that are functionally equivalent to Consortium Report 1.
Consortium Report 2: Total Searches by Month and Database	Eliminated	Consortium administrators will request "Database Usage" for each member. This can be automated via SUSHI using the /members path. Tools will be provided to create consolidated reports that are functionally equivalent to Consortium Report 1.
Consortium Report 3: Number of Successful Multimedia Full Content Unit Requests by Month and Collection	Eliminated	For multimedia collections that are equivalent to databases, consortium administrators will request "Database Usage" for each member. This can be automated via SUSHI using the /members path. Tools will be provided to create consolidated reports that are functionally equivalent to Consortium Report 1.
Database Report 1: Total Searches, Result Clicks, and Record Views by Month and Database	Database Usage	Result Clicks and Record Views have been replaced by "Total_Item_Investigations". Metrics for regular searches remains unchanged, and federated and automated searches are now reported separately. Report also includes access denied and full-text metrics.
Database Report 2: Access Denied by Month, Database, and Category	Database-Access Denied	Report renamed and updated metric types used
Journal Report 1: Number of Successful Full-Text Article Requests by Month and Journal	Journal Requests (excluding "OA_ Gold")	"Total_Item_Requests" is the equivalent to full text total. HTML and PDF totals have been eliminated, but "Unique_Item_Requests" can be used to evaluate the effect of the user interface on statistics and offers a comparable statistics for cost-per-unique-use analysis.
Journal Report 1 GOA: Number of Successful Gold Open Access Full-Text Article Requests by Month and Journal	Title Master Report	The Title Master Report can be filtered by "Access_Type=OA_Gold" AND "Metric_Type=Total_Item_Requests" to obtain equivalent results.
Journal Report 1a: Number of Successful Full-Text Article Requests from an Archive by Month and Journal	Journal Requests by "YOP (excluding "OA_ Gold")"	The R5 report breaks out usage by "Year of Publication" ("YOP") to enable evaluation of usage of content for which perpetual access rights are available.
Journal Report 2: Access Denied to Full-Text Articles by Month, Journal and Category	Journal-Access Denied	The "Limit_Exceeded" and "No_license" metrics are equivalent to corresponding metrics in R4 report.
Journal Report 3: Number of Successful Item Requests by Month, Journal and Page-type	Title Master Report	The "Title Master Report" can be configured to show "Section_Types", which provides details similar to JR5.

Journal Report 3 Mobile: Number of Successful Item Requests by Month, Journal and Page-type for usage on a mobile device	Eliminated (no equivalent)	Capturing usage by mobile devices is less relevant with the responsive design of most sites. The variety of "mobile" devices also make it difficult to categorize given today's smartphones have screen resolutions that exceed those of some desktops.
Journal Report 4: Total Searches Run By Month and Collection	Eliminated (no equivalent)	To the extent that a "Journal Collection" is organized for searching as a discrete "Collection" (rare), usage would be reported in a "Database Usage Report".
Journal Report 5: Number of Successful Full-Text Article Requests by Year-of-Publication (YOP) and Journal	Journal Requests by "YOP (excluding "OA_Gold")"	This R5 report offers a breakdown of journal usage by "Year of Publication" (YOP) and the resulting report can be analysed using filters or pivot tables.
Multimedia Report 1: Number of Successful Full Multimedia Content Unit Requests by Month and Collection	Database Usage	"Multimedia" usage, where "Multimedia" is packaged and accessed as separate "Collections", would be reported using a "Database Usage Report".
Multimedia Report 2: Number of Successful Full Multimedia Content Unit Requests by Month, Collection and Item Type	Item Report 1: Usage by Month and Item	The "Item Report" provides a more detailed breakdown by "Item" and includes attributes such as "Data_Type". This report can be used to provide summary statistics by type.
Platform Report 1: Total Searches, Result Clicks, and Record Views by Month and Platform	Platform Usage	The R5 report provides equivalent metrics as well as additional metrics related to item full-text requests.
Title Report 1: Number of Successful Requests for Journal Full-Text Articles and Book Sections by Month and Title	Title Master Report	The Title Master Report offers a single report for books and journals and can show the usage broken down by "Section Type".
Title Report 1 Mobile: Number of Successful Requests for Journal Full-Text Articles and Book Sections by Month and Title (formatted for normal browsers/delivered to mobile devices AND formatted for mobile devices/delivered to mobile devices)	Eliminated (no equivalent)	Capturing usage by mobile devices is less relevant with the responsive design of most sites. The variety of mobile devices also makes it difficult, as does the fact that today's smartphones have screen resolutions exceeding those of some desktops.
Title Report 2: Access Denied to Full-Text Items by Month, Title, and Category	Title Master Report	The Title Master Report offers a single report for books and journals and can show access-denied metrics.
Title Report 3: Number of Successful Item Requests by Month, Title, and Page Type	Title Master Report	The Title Master Report offers a single report for books and journals and can show the usage broken down by "Section Type" as well as all relevant metric types.
Title Report 3 Mobile: Number of Successful Item Requests by Month, Title, and Page Type (formatted for normal browsers/delivered to mobile devices AND formatted for mobile devices/delivered to mobile devices	Eliminated (no equivalent)	Capturing usage by mobile devices is less relevant with the responsive design of most sites. The variety of mobile devices also makes it difficult, as does the fact that today's smartphones have screen resolutions exceeding those of some desktops.

1.2 Report Format

With R5, all COUNTER reports are structured the same way to ensure consistency, not only between reports, but also between the SUSHI and tabular versions of the reports. Now, all reports share the same format for the header, the report body is derived from the same set of element names, total rows have been eliminated, and data values are consistent between the SUSHI and tabular version. (See Section 3.2.). R5 also addresses the problem of terminology and report layouts varying from report to report, as well as SUSHI and tabular versions of the same report producing different results while still being compliant

1.3 Metric Types

Release 5 of the COUNTER Code of Practice strives for simplicity and clarity by reducing the number of metric types and standardizing them across all reports, as applicable. With R4, Book Reports had different metric types from those in Journal Reports or in additional attributes such as mobile usage, usage by format, etc. Most COUNTER R4 metric types have either been renamed or eliminated in favour of new R5 metric types. The table below show the R4 metric types as documented for SUSHI and their R5 state.

R4 Metric Types	R5 Equivalence or Status	Comments
abstract	"Total_Item_Investigations" "Unique_Item_Investigations" "Unique_Title_Investigations"	Actions against an item are tracked using the more generic "Total_Item_Investigations" metrics. Due to the variety of types of item attributes that can be investigated, COUNTER no longer attempts to track with separate metric types.
audio	Eliminated	This metric was only used in JR3/TR3 reports which saw little implementation or use. The intent was to represent activity of objects embedded in articles.
data_set	Eliminated	When a content item was a dataset, the "Total_Item_ Requests" metrics would be used in combination with a "Data_Type" of dataset.
ft_epub	"Total_Item_Requests" "Unique_Item_Requests" "Unique_Title_Requests"	More generic "Total_Item_Requests" are now used in place of format-specific metrics.
ft_html	"Total_Item_Requests" "Unique_Item_Requests" "Unique_Title_Requests"	More generic "Total_Item_Requests" are now used in place of format-specific metrics.
ft_html_mobile	Eliminated	Tracking of activity by mobile devices is no longer required for COUNTER compliance.
ft_pdf	"Total_Item_Requests" "Unique_Item_Requests" "Unique_Title_Requests"	More generic "Total_Item_Requests" are now used in place of format-specific metrics.

ft_pdf_mobile	Eliminated	Tracking of activity by mobile devices is no longer required for COUNTER compliance.
ft_ps	"Total_Item_Requests" "Unique_Item_Requests" "Unique_Title_Requests"	More generic "Total_Item_Requests" are now used in place of format-specific metrics.
ft_ps_mobile	Eliminated	Tracking of activity by mobile devices is no longer required for COUNTER compliance.
ft_total	"Total_Item_Requests"	"Total_Item_Requests" is a comparable metric.
image	Eliminated	This metric was only used in JR3/TR3 reports which saw little implementation or use. The intent was to represent activity of objects embedded in articles.
multimedia	"Total_Item_Requests" "Unique_Item_Requests" "Unique_Title_Requests"	More generic "Total_Item_Requests" are now used in place of format-specific metrics.
no_license	no_license	No change
other	Eliminated	"Other" usage provides no value.
podcast	Eliminated	This metric was only used in JR3/TR3 reports which saw little implementation or use. The intent was to represent activity of objects embedded in articles.
record_view	"Total_Item_Investigations" "Unique_Item_Investigations" "Unique_Title_Investigations"	Actions against an item are tracked using the more generic "Total_Item_Investigations" metrics. Due to the variety of types of item attributes that can be investigated, COUNTER no longer attempts to track with separate metric types.
reference	"Total_Item_Investigations" "Unique_Item_Investigations" "Unique_Title_Investigations"	Actions against an item are tracked using the more generic "Total_Item_Investigations" metrics. Due to the variety of types of item attributes that can be investigated, COUNTER no longer attempts to track with separate metric types.
result_click	"Total_Item_Investigations" "Unique_Item_Investigations" "Unique_Title_Investigations"	Actions against an item are tracked using the more generic "Total_Item_Investigations" metrics. Due to the variety of types of item attributes that can be investigated, COUNTER no longer attempts to track with separate metric types.
search_fed	"Searches_Federated" "Searches_Automated"	The R4 automated and federated search metrics have been separated into two separate metrics since the nature of the activity is very different.
search_reg	"Searches_Regular" "Searches_Platform"	For database reports, use "Searches_Regular". When reporting at the platform level use "Searches_Platform"

sectioned_html	Total_Item_Requests Unique_Item_Requests Unique_Title_Requests	More generic "Total_Item_Requests" are now used in place of format-specific metrics.
toc	"Total_Item_Investigations" "Unique_Item_Investigations" "Unique_Title_Investigations"	Actions against an item are tracked using the more generic "Total_Item_Investigations" metrics. Due to the variety of types of item attributes that can be investigated, COUNTER no longer attempts to track with separate metric types.
turnaway	"Limit_Exceeded"	Renamed to provide more clarity into the nature of the access-denied event.
video	Eliminated	This metric was only used in JR3/TR3 reports which saw little implementation or use. The intent was to represent activity of objects embedded in articles.

1.4 New elements and attributes introduced

With Release 4 the nature of the usage sometimes had to be inferred based on the name of the report. In an effort to provide more consistent and comparable reporting, R5 introduces some additional attributes that content providers can track with the usage and use to create breakdowns and summaries of usage.

Attribute	Description	Values
"Access_Type"	Used in conjunction with "Item_Requests", this attribute indicates if, at the time of the request, access to the item was controlled (e.g. subscription or payment required) or was available as open access or other free-to-read option.	"Controlled" "OA_Delayed" [reserved for future] "OA_Gold" "Other_Free_to_Read
"Access_Method"	This attribute is currently used to distinguish between regular usage (users accessing scholarly information for research purposes) and usage for the purpose of "Text and Data Mining" ("TDM").	"Regular" "TDM"
"Data_Type"	Used to generally classify the nature of item usage is being presented for.	"Article" "Book" "Book Segment" "Collection "Database" "Dataset" "Journal" "Multimedia" "Newspaper or Newsletter" "Other" "Platform" "Report" "Repository Item" "Dissertation or Thesis"

"Publisher_ID"	A unique identifier for the publishers, preferably to a standard identifier such as ISNI. For SUSHI version of the report, the type and value are separate. For tabular, the format is *type=format.*	"isni=123334445"
"Section_Type"	Used in conjunction with "Data_Type", this attribute tracks requests to the level of the section requested. Used mostly with eBooks where content may be delivered by chapter or section, this element defines the nature of the section retrieved.	"Article" "Book" "Chapter" "Other" "Section"
"YOP"	Used in conjunction with "Item_Requests", this attribute records the year of publication of the item. The YOP attribute replaces the year-of-publication ranges in R4's JR5 report.	A 4-digit year, e.g. "2012" "0001" for Unknown "9999" for Articles in Print

APPENDIX C   CONTENT PROVIDER DECLARATION OF COUNTER COMPLIANCE

We <name of Content Provider> ('The Company') hereby confirm the following:

1. That the following online usage reports supplied by The Company to its customers and that The Company claims to be 'COUNTER-compliant' conforming to Release 5 of the COUNTER Code of Practice:
    < insert list COUNTER-compliant reports >

2. The Company agrees that it will implement the protocols specified in Section 7 of Release 5 of the Code of Practice to correct for the effects of federated searches and internet robots on usage statistics.

3. When The Company provides customers with online usage statistics that are not included in the usage reports listed in Point 1 (above) but that use terms defined in the COUNTER Code of Practice, the definitions used by The Company are consistent with those provided in the COUNTER Code of Practice.

4. The Company will pay to COUNTER the Vendor Registration Fee (£350/US$500), unless The Company is a member of COUNTER in good standing, for whom this fee is waived.

5. That to maintain COUNTER-compliant status, the usage reports provided by The Company to its customers will be independently audited according to a schedule and standards specified by COUNTER.

Signature: _____ Date: ____–_____

Name: _____ Title: _____

For and on behalf of (Vendor Name): _____

Address: _____

Email address: _____

Upon receipt of this signed declaration by the COUNTER office and upon payment (where the Company is not a member of COUNTER) by The Company of the Content Provider Registration Fee, The Company will be listed on the Register of Content Providers providing COUNTER-compliant Usage Reports pending completion of a formal audit within 6 months of signing this declaration.

This Declaration may be scanned and emailed to: lorraine.estelle@counterusage.org Cheques should be made payable to 'Project COUNTER' and mailed to: COUNTER, 25 Egbert Road, Winchester, Hampshire SO23 7EB

APPENDIX D   TECHNICAL GUIDE

APPENDIX E

AUDIT REQUIREMENTS AND TESTS

1. GENERAL AUDITING REQUIREMENTS

AUDIT PHILOSOPHY

The COUNTER audit procedures and tests set out in this Appendix seek to ensure that the usage reports provided by content providers are in line with the COUNTER Code of Practice and follow uniform agreed procedures. To this end, the COUNTER audit seeks to mirror the activity of an institution (a customer) carrying out usage on the content provider's platform.

THIRD PARTY HOSTS AND VENDORS

Two broad categories must be taken into account for usage statistics reporting, and each has additional audit requirements. These categories are:

- Third-party hosts: Some publishers have their online content hosted by a third party that provides standard usage statistics reporting as part of a broader hosting service. In these cases, it is the third-party host that is audited. For the audit the third-party host must provide the auditor with a list of all publishers hosted by them and the COUNTER Reports and Standard Views offered by each. The auditor will then select a minimum of two publishers at random from the list and carry out the audit tests as specified below on the selected publishers.

- Third-party vendors: Some publishers use third-party companies that provide bespoke usage-statistics reporting services, where the solutions used may differ significantly for each client publisher. In this case the third-party vendor must provide the auditor with a list of all their client publishers and the COUNTER Reports and Standard Views offered by each. The auditor will then select 10% of the publishers (up to a maximum of 5, with a minimum of 2) from this list and carry out the audit tests specified below.

No two third-party hosts/vendors are exactly alike. Prior to the audit each must discuss with COUNTER how they provide usage statistics so that COUNTER can advise which of the two categories above applies to them.

AUDITING AND TEST-SCRIPTS

There are three stages in the COUNTER audit:

- **Stage 1:** Format. Here the auditor reviews usage reports to confirm that they adhere to the COUNTER Code of Practice Specification, not only in terms of overall format, but to make sure relevant identifiers, such as ISSNs and ISBNs, are presented correctly. Deviations from the specified COUNTER-compliant format, such as extra blank rows or incorrectly formatted ISSNs, can cause problems when the COUNTER usage reports are processed automatically.

- **Stage 2:** Data Integrity. Here the auditor confirms that the usage statistics reported by the content provider accurately record the activity carried out by the auditor during the audit. This includes checking that the content provider provides consistent usage statistics when its reports are accessed using different browsers, including Google Chrome, Internet Explorer, and Mozilla Firefox as a minimum. Note: COUNTER will review the three selected browsers annually. The selection may change in the future, depending on which browsers are most widely used.

- **Stage 3:** Report Delivery. Here the auditor tests that the content provider has implemented SUSHI correctly and that its reports can be accessed using SUSHI according to the instructions supplied by the content provider (which must comply with the NISO/COUNTER SUSHI standard). Implementation of SUSHI is a requirement for compliance and is covered by the Declaration of COUNTER Compliance signed by all compliant content providers. Delivery of reports via Excel or .tab separated value (TSV) file will still be required as specified in the COUNTER Code of Practice.

COUNTER defines specific audit test-scripts for each of the COUNTER-required usage reports. Because content providers may work with different auditors, the test-scripts help to ensure that each auditor follows a common auditing procedure.

The COUNTER auditor cannot express an opinion as to usage reported in respect of any other accounts or institutions, or as to aspects of the COUNTER Code of Practice, not specifically tested. Release 5-compliant content providers are reminded, however, that their signed Declaration of COUNTER compliance also covers these aspects of the COUNTER Code of Practice.

A. FREQUENCY OF THE AUDIT

To maintain COUNTER-compliant status an independent audit is required within 6 months of a content provider being listed in the Register of COUNTER Compliant Content Providers and annually thereafter. (Excepted are content providers that are members of COUNTER in the Smaller Publisher category, which may be audited biennially, with permission from COUNTER). Failure to meet these audit requirements will result in a content provider losing its COUNTER-compliant status.

If COUNTER does not receive a satisfactory auditor's report within the specified time, the following control procedures apply:

New content providers having signed the Declaration of Compliance:

6 months after signing	A reminder from COUNTER that the first auditor's report is required
8 months after signing	A final reminder from COUNTER that the first auditor's report is required
9 months after signing	The content provider is removed from the registry and is notified by COUNTER that they are non-compliant and must not make reference to COUNTER or use the COUNTER logo.

Content providers previously audited:

3 months following the due audit date	A reminder from COUNTER that an auditor's report is required
4 months following the due audit date	A further reminder from COUNTER that an auditor's report is required
5 months following the due audit date	A final reminder from the Chair of the COUNTER Executive Committee that an auditor's report is required
6 months following the due audit date	The content provider is removed from the registry and is notified by COUNTER that they are non-compliant and must not make reference to COUNTER or use the COUNTER logo.

B. COUNTER USAGE REPORTS FOR WHICH AN INDEPENDENT AUDIT IS REQUIRED

Independent audits are required for COUNTER reports according to Host Type(s). See Table 1 (below).

Table 1: COUNTER Reports Requiring Audit

Category	Report ID (for SUSHI)	R5 Report Name	Master Report / Standard View	Host Type
Platform	PR	Platform Master Report	Master	All
Platform	PR_P1	Platform Usage	Standard View	All
Database	DR	Database Master Report	Master	- Aggregated Full Content - A&I Database - Discovery Service - eBook Collections - Multimedia Collection
Database	DR_D1	Database Searches and Item Usage	Standard View	- Aggregated Full Content - A&I Database - Discovery Service - eBook Collections - Multimedia Collection

Database	DR_D2	Database Access Denied	Standard View	- Aggregated Full Content - A&I Database - Discovery Service - eBook Collections - Multimedia Collection
Title	TR	Title Master Report	Master	- Aggregated Full Content - eBooks - eBook Collections - eJournals
Title	TR_B1	Book Requests (excluding "OA_Gold")	Standard View	- Aggregated Full Content - eBooks - eBook Collections
Title	TR_B2	Book Access Denied	Standard View	- eBooks - eBook Collections
Title	TR_B3	Book Usage by Access Type	Standard View	- Aggregated Full Content - eBooks - eBook Collections
Title	TR_J1	Journal Requests (excluding "OA_Gold")	Standard View	- Aggregated Full Content - eJournals
Title	TR_J2	Journal Access Denied	Standard View	- eJournals
Title	TR_J3	Journal Usage by Access Type	Standard View	- Aggregated Full Content - eJournals
Title	TRr_J4	Journal Requests by YOP (excluding "OA_Gold")	Standard View	- Aggregated Full Content - eJournals
Item	IR	Item Master Report	Master	- Data Repository - Multimedia Collection - Repository - Scholarly Collaboration Network
Item	IR_A1	Journal Article Requests	Standard View	- Repository
Item	IR_M1	Multimedia Item Requests	Standard View	- Multimedia Collection

C. GENERAL CONDITIONS FOR CARRYING OUT AN AUDIT TEST

COUNTER defines a reporting period as a calendar month. A report run for any given month MUST reflect all activity of a customer for the entire month in question.

This applies also to auditing activity. An auditor should always finalize the audit tests within one and the same calendar month. During the audit period, all activity on the audit accounts not instigated by the auditor should be prevented, as this will make the test reports unreliable and may result in further audit tests.

To prevent any collision of reported data, an auditor should be allowed to set up and maintain separate accounts for each of the audit tests. All accounts should be set up in such a way that only the auditor carrying out a test can access the content provider's site.

Prior to the audit, the content provider must supply to the auditor:

1. **Account details for at least 4 separate accounts with access to all areas required to be tested (or specific restrictions for turn-away testing).**

2. **Links to download usage reports in all required formats. COUNTER usage reports must be provided as tabular versions, which can be easily imported into Microsoft Excel pivot tables.**

3. **SUSHI credentials for the test accounts to enable verification of SUSHI harvesting and formatting of the harvested reports.**

4. **A declaration that federated and automated searches have been disaggregated from any searches reported. See the COUNTER Code of Practice for further information on the protocols that apply to federated and automated searches.**

5. **If server-side caching is implemented, information on cache settings used should be provided. Note: Server-side caching can cause a discrepancy between the usage recorded in the audit tests and the usage reported by the content provider. Information on cache settings enables the auditor to take them into account when evaluating the results of the report tests. If the content provider does not provide this information, the auditor is likely to require further audit tests that may incur additional costs.**

2. THE REQUIRED AUDIT OUTPUTS

If the auditor identifies one or more issues, the content provider MUST resolve them and pass the audit within 3 months to maintain COUNTER-compliant status. Please see section 9.2 in the COUNTER Code of Practice.

The auditor will provide to the COUNTER Executive Committee a summary report including, as a minimum, the following information:

1. **The name of the content provider**

2. **The audit period and date**

3. **The usage report(s) tested**

4. **For each usage report tested, the test results, indicated as a % of the reported figures over the expected**

5. **A summary of any material issues noted with the format/structure, data integrity, and/ or delivery of the content provider's reports. If there are no issues, a PASS should be noted.**

6. **A clear indication of the outcome of the audit: PASS, QUALIFIED PASS, or FAIL.**

7. **Any other comments that relate to the audit and are worthy of consideration by the COUNTER Executive Committee.**

Sample Audit Report:

Content Provider	<name>							
Audit Period	<mmm/yyyy>		Date	<mmm/yyyy>				
		Report Format			Delivery			
Report	Usage Activity Result	Tabular	SUSHI	Data Integrity	Reports Interface	SUSHI Server	Opinion	Comments
TR_J1	100%	PASS	PASS	PASS	PASS	PASS	PASS	
TR_B1	112%	PASS	REPORT TOTALS included	PASS	PASS	PASS	FAIL	SUSHI versions of reports must not have totals.

A content provider may need to submit multiple audit reports, some of which PASS and some of which FAIL. The results each report's tests should be submitted on a separate line. For a content provider to maintain COUNTER-compliant status, each audited report must PASS.

3. THE REQUIRED AUDIT TESTS

Stage 1. Report Format: Checking the report layout and file-format against the COUNTER Code of Practice

The auditor will confirm that each of the audit reports complies with the COUNTER Code of Practice.

The following items will be checked:

- The layout of the report (headers/footers, number of fields, field sequence, totals field, and format of reported numbers)

- The conformity of identifiers to the required standard (e.g. ISSNs must be provided as nine digits, with a hyphen as the middle digit)

- The presence of all required file formats (a Microsoft Excel file, a tab-separated value (TSV) file, or a file that can be easily imported into Microsoft Excel)

- That email alerts are set to report usage reports updated in a timely manner

- Flexibility in the reporting period so customers can specify the start and end months of data reported in the COUNTER reports

- That COUNTER usage reports are available in XML format in accordance with the COUNTER XML schema specified by SUSHI. (Schema may be found on the NISO/SUSHI website at: http://www.niso.org/schemas/sushi/)

- That COUNTER schema covers all the COUNTER usage reports.

- That the XML formatted report produced via SUSHI matches the total of the relevant usage counted on the equivalent .tsv/Excel report offered by the content provider, i.e. A report should produce the same results irrespective of the format in which it is delivered.

Stage 2. Data Integrity: Checking the usage numbers as reported

The audit-test must be conducted in such a way that the auditor's activities during the audit-test can be isolated from other activities on the content provider's site. Depending on the site being tested, the auditor must conduct the audit-test from a computer with a unique IP address and/or using a unique account number.

The auditor must accept user/machine and session cookies when prompted.

PLATFORM REPORTS

Master Report: PR

The Platform Master Report will be COUNTER-compliant if the following Standard View passes the COUNTER Audit and the figures reported within it are matching what is reported in the Master Report.

Standard View: PR_P1

Platform Usage: A Standard View of the Platform Master Report offering platform-level usage summarized by "Metric_Type".

	A	B	C	D	E	F	G	H	I
1	Report_Name	Platform Usage							
2	Report_ID	PR_P1							
3	Release	5							
4	Institution_Name	Sample University							
5	Institution_ID	isni=1234567890							
6	Metric_Types	Searches_Platform; Total_Item_Requests; Unique_Item_Requests							
7	Report_Filters	Access_Type=Controlled; Access_Method=Regular							
8	Report_Attributes								
9	Exceptions								
10	Reporting_Period	2017-01-01 to 2017-06-30							
11	Created	2017-05-25							
12	Created_By	Platform X							
13									
14	Platform	Metric_Type	Reporting_ Period_Total	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017
15	PlatformX	Searches_Platform	20624	1923	2299	3421	5301	4072	3608
16	PlatformX	Total_Item_Requests	40654	3747	4499	6743	10503	8045	7117
17	PlatformX	Unique_Item_Requests	25916	2805	3181	4303	6183	4954	4490

An audit of this Standard View requires the following:

1. **The auditor must have access to all databases as made available on the platform of the content provider.**

2. **Audit-test P1-1: "Searches_Platform"**

   2.1 ***Option 1:*** Platform has multiple databases, and it is possible to search over all databases, selected subset of databases, or a single database.

   The auditor must run 100 searches on the platform, including 50 searches against only 1 selected database, 25 against 2 selected databases, and 25 against all databases. Each of these searches must report 1 "Searches_Platform" in the PR_P1 Standard View.

   Option 2: Platform has multiple databases, and it is possible to search over all databases or a single database.

   The auditor must run 100 searches on the platform, including 50 searches against only 1 selected database and 50 against all databases. Each of these searches must report 1 "Searches_Platform" in the PR_P1 Standard View.

   Option 3: Platform has a single database.

   The auditor must run 50 searches on the platform, with all 50 searches run against the 1 database. Each of these searches must report 1 "Searches_Platform" in the PR_P1 Standard View.

2.2   All searches, including those returning 0 results, must be reported as a "Searches_ Platform" in the PR_P1 Standard View.

2.3   The auditor must allow at least 31 seconds between each search.

2.4   Each time a search is conducted, the auditor will record the search term, the database searched, and the number of results returned.

2.5   A content provider will pass this audit test when the sum of the searches reported by the content provider in PR_P1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the searches on the auditor's report.

3.   **Audit-test P1-2: "Searches_Platform" 30-second filters**

3.1   To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. The auditee needs to confirm before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

3.2   The audit-test consists of making identical searches twice in succession (double-clicks). If the two searches occur within a 30-second time-span, only the second search must be counted. If the two searches occur with more than 30-seconds between them, then two searches must be counted.

3.3   The auditor must carry out a total of 30 tests on the platform, and each test will consist of 2 searches. All 30 tests must be run against a single database (or all databases, if a single database is not possible). There are 2 types of tests that must be carried out:

- "Inside" tests (Two identical searches are made, and the second search is made **within** 30 seconds of the first).

- "Outside" tests (Two identical searches are made, and the second search is made **more than** 30 seconds after the first).

3.4   A total of 30 tests must be carried out—15 inside tests and 15 outside tests. Each of the inside tests must result in a single search being reported, and each of the outside tests must result in 2 searches being reported. (This may not be the case if the content provider operates a cache server.)

3.5   The auditor must allow at least 31 seconds between each of the 30 tests.

3.6   A content provider will pass this audit test when the sum of the searches reported by the content provider in PR_P1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the searches on the auditor's report.

4. **Audit-test P1-3: "Total_Item_Requests", "Unique_Item_Requests" and "Unique_Title_ Requests"**

4.1 ***Option 1:*** Platform has multiple databases that include titles.

The auditor must make a total of 100 requests on a subset of the unique items made available to them, including 50 requests against items not within titles (if available) and 50 requests against items within titles (if available).

If the platform does not have content that is within a title, then all 100 requests must be made to items within titles.

Each title must have 5 Items requested within it (reporting 5 "Total_Item_Requests", 5 "Unique_Item_Requests", and 1 "Unique_Title_Requests").

It may not be possible to know which Title the Item being requested belongs to prior to the delivery of the Item. In this case, the titles containing the Item must be noted by the auditor upon request.

This must result in 100 "Total_Item_Requests" and "Unique_Item_Requests" in the PR_P1 Standard View.

The "Unique_Title_Requests" being reported in the PR_P1 Standard View will be de- termined by the number of unique titles noted by the auditor during the testing.

Option 2: Platform has multiple databases that do not include titles.

The auditor must make 100 requests on a subset of the unique items made available to them.

This must result in 100 "Total_Item_Requests" and "Unique_Item_Requests" being reported in the PR_P1 Standard View. The number of "Unique_Title_Requests" being reported will be 0.

Option 3: Platform has a single database, which includes titles.

The auditor must make 50 requests on items made available to them, including 25 requests against items not within titles (if available) and

25 requests against Items within titles (if available).

If the platform does not have content that is within a Title, then all 50 requests must be made to Items within titles.

Each title must have 5 Items requested within it (reporting 5 "Total_Item_Requests", 5 "Unique_Item_Requests", and 1 "Unique_Title_Requests").

It may not be possible to know which Title the Item being requested belongs to prior to the delivery of the Item. In this case, the titles containing the Item must be noted by the auditor upon request.

This must result in 50 "Total_Item_Requests" being reported in the PR_P1 Standard View.

The "Unique_Title_Requests" being reported in the PR_P1 Standard View will be determined by the number of unique titles noted by the auditor during the testing.

Option 4: Platform has a single database, which does not include titles.

The auditor must make 50 requests on items made available to them.

This must result in 50 "Total_Item_Requests" and "Unique_Item_Requests" being reported in the PR_P1 Standard View. The number of "Unique_Title_Requests" being reported will be 0.

4.2   Multiple paths should be used to make the requests. When possible, 50% of items requested should be via browsing the platform and 50% via searching. If either browsing to items or accessing items via searching is not possible, then 100% of items requested can be requested via the only available option. The user may think they are browsing a list but are in fact triggering searches. For this reason, requests via browsing may deliver unexpected searches, however the end Item/Title will always be as expected.

4.3   The auditor must allow at least 31 seconds between each test.

4.4   A content provider will pass this audit test when the sum of the "Total_Item_Requests" and "Unique_Item_Requests" reported by the content provider in PR_P1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the searches on the auditor's report.

5.   **Audit-test P1-4: "Total_Item_Requests", "Unique_Item_Requests", and "Unique_Title_Requests" 30-second filters**

5.1   To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

5.2   The audit test consists of clicking links to an item twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between them, then 2 "Total_Item_Requests" must be counted. In both cases only 1 "Unique_Item_Requests" will be reported. If the Item being requested is within a Title, then the Title the Item is within must be noted by the auditor and the "Unique_Title_Requests" will also report only 1.

5.3   **Option 1:** Platform includes titles.

The auditor must carry out a total of 30 tests on the platform, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

- "Inside" tests (Two requests are made to the same item, and the second request is made within 30 seconds of the first).

- "Outside" tests (Two requests are made to the same item, and the second request is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

6 tests must be made against Items not within titles (if available).

9 tests must be made against Items within titles (if available).

If the platform does not have content that is without a Title, then all 15 requests must be made to Items within titles.

Each title must have 2 items tests within it (reporting 1 "Total_Item_Requests", 1 "Unique_Item_Requests", and 1 "Unique_Title_Requests"). It may not be possible to know which title the item being requested belongs to prior to the delivery of the item. In this the case, the titles that contain the Item must be noted by the auditor upon request.

This must result in 15 "Total_Item_Requests" and 15 "Unique_Item_Requests" in the PR_P1 Standard View.

This may not be the case if the content provider operates a cache server.

The "Unique_Title_Requests" being reported in the PR_P1 Standard View will be determined by the number of unique titles noted by the auditor during the testing.

The audit must carry out 15 outside tests.

6 requests must be made against Items not within titles (if available).

9 requests must be made against Items within titles (if available).

If the platform does not have content that is without a title, then all 15 requests must be made to Items within titles.

Where possible, each title must have 2 items requested within it (reporting 2 "Total_Item_Requests", 1 "Unique_Item_Requests" and 1 "Unique_Title_Requests"). It may not be possible to know which title the item being requested belongs to prior to the delivery of the item. In this case, the titles containing the Item must be noted by the auditor upon request.

This must result in 30 "Total_Item_Requests" and 15 "Unique_Item_Requests" in the PR_P1 Standard View.

This may not be the case if the content provider operates a cache server.

The "Unique_Title_Requests" being reported in the PR_P1 Standard View will be determined by the number of unique titles noted by the auditor during the testing.

Option 2: Platform does not include titles.

The auditor must carry out a total of 30 tests on the platform, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

- "Inside" tests (Two identical requests are made, and the second request is made within 30 seconds of the first).
- "Outside" tests (Two identical requests are made, and the second request is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

This must result in 15 "Total_Item_Requests" and 15 "Unique_Item_Requests" in the PR_P1 Standard View.

This may not be the case if the content provider operates a cache server.

The "Unique_Title_Requests" being reported in the PR_P1 Standard View will be 0.

The audit must carry out 15 outside tests.

This must result in 30 "Total_Item_Requests" and 15 "Unique_Item_Requests" in the PR_P1 Standard View.

This may not be the case if the content provider operates a cache server.

The "Unique_Title_Requests" being reported in the PR_P1 Standard View will be 0.

5.4 The auditor must allow at least 31 seconds between each of the 30 tests.

5.5 A content provider will pass this audit test when the sum of the "Total_Item_Requests" and "Unique_Item_Requests" reported by the content provider in PR_P1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Unique_Item_Requests" on the auditor's report.

Audit tests P1-1, P1-2, P1-3, and P1-4 must take place in separate accounts so that each audit-test can be separately reported.

DATABASE REPORTS

Master Report: DR

The Database Master Report will be COUNTER-compliant if the following Standard Views pass the COUNTER audits and the figures reported within them match what is reported in the Master Report.

Any Standard View that is not applicable to the content provider does not require auditing. This must be agreed prior to the audit by COUNTER.

Standard View: DR_D1

Databases Searches and Item Usage: Reports on key search and request metrics needed to evaluate a database.

	A	B	C	D	E	F	G	H	I
1	Report_Name	Database Search and Item Usage							
2	Report_ID	DR_D1							
3	Release	5							
4	Institution_Name	Sample University							
5	Institution_ID	isni=1234567890							
6	Metric_Types	Searches_Regular; Total_Item_Investigations;							
7	Report_Filters	Access_Type=Controlled; Access_Method=Regular							
8	Report_Attributes								
9	Exceptions								
10	Reporting_Period	2017-01-01 to 2017-06-30							
11	Created	2017-05-25							
12	Created_By	Platform X							
13									
14	Database	Publisher	Publisher_ID	Platform	Proprietary_ID	Metric_Type	Reporting_ Period_Tota	Jan-2017	Feb-2017
15	Database A	DB Publisher X		PlatformX	pubx:dbA	Searches_Automated	2822	234	531
16	Database A	DB Publisher X		PlatformX	pubx:dbA	Searches_Federated	2372	159	456
17	Database A	DB Publisher X		PlatformX	pubx:dbA	Searches_Regular	3410	332	629
18	Database A	DB Publisher X		PlatformX	pubx:dbA	Total_Item_Investigations	17208	1450	3232
19	Database A	DB Publisher X		PlatformX	pubx:dbA	Total_Item_Requests	8484	705	1596
20	Database B	DB Publisher X		PlatformX	pubx:dbB	Searches_Automated	3008	229	543
21	Database B	DB Publisher X		PlatformX	pubx:dbB	Searches_Federated	2558	154	468
22	Database B	DB Publisher X		PlatformX	pubx:dbB	Searches_Regular	3596	327	641
23	Database B	DB Publisher X		PlatformX	pubx:dbB	Total_Item_Investigations	17824	1445	3244
24	Database B	DB Publisher X		PlatformX	pubx:dbB	Total_Item_Requests	8842	700	1608

An audit of this Standard View requires the following:

1. **The auditor must have access to all databases available on the platform of the content provider.**

2. **Audit-test D1-1: "Searches_Regular"**

2.1 ***Option 1:*** The content provider offers multiple databases, and it is possible to search over all databases, a selected subset of databases, or a single database.

The auditor must run 100 searches, including 50 against only 1 selected database, 25 against 2 selected databases, and 25 against all databases.

Each of these searches on a single database must report 1 "Searches_Regular" in the DR_D1 Standard View.

Each of these searches over 2 databases must report 1 "Searches_Regular" against each of the selected databases in the DR_D1 Standard View.

Each of these searches over all databases must report 1 "Searches_Regular" against each of the databases offered by the content provider in the DR_D1 Standard View.

Option 2: The content provider has multiple databases, and it is possible to search over all databases or a single database.

The auditor must run 100 searches, including 50 against only 1 selected database and 50 against all databases.

Each of these searches on a single database must report 1 "Searches_Regular" in the DR_D1 Standard View.

Each of these searches over all databases must report 1 "Searches_Regular" against each of the databases offered by the content provider in the DR_D1 Standard View.

Option 3: The content provider has a single database.

The auditor must run 50 searches against the 1 database. Each of these searches must report 1 "Searches_Regular" in the DR_D1 Standard View.

2.2 All searches, including those returning 0 results, must be reported as a "Searches_ Platform" in the DR_D1 Standard View.

2.3 The auditor must allow at least 31 seconds between each search.

2.4 Each time a search is conducted, the auditor will record the search term, the database searched, and the number of results returned.

2.5 A content provider will pass this audit test when the sum of the searches reported by the content provider in DR_D1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the searches on the auditor's report.

3. **Audit-test D1-2: "Searches_Regular" 30-second filters**

3.1 To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

3.2 The audit-test consists of making identical searches twice in succession (double-clicks). If the two searches occur within a 30-second time-span, only the second search must be recorded. If the two searches occur with more than 30 seconds between them, then two searches must be counted.

3.3 The auditor must carry out a total of 30 tests. Each test will consist of 2 searches, and all 30 tests must be run against a single database (or all databases when a single database is not possible). There are 2 types of tests that must be carried out:

- "Inside" tests (Two identical searches are made, and the second search is made within 30 seconds of the first).

- "Outside" tests (Two identical searches are made, and the second search is made more than 30 seconds after the first).

3.4 A total of 30 tests must be carried out, 15 inside tests and 15 outside tests. Each of the inside tests must result in a single search being reported and each of the outside tests must result in 2 searches being reported.

This may not be the case if the content provider operates a cache server.

3.5 The auditor must allow at least 31 seconds between each of the 30 tests.

3.6 A content provider will pass this audit test when the sum of the searches reported by the content provider in PR_P1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the searches on the auditor's report.

4. **Audit-test D1-3: "Total_Item_Requests"**

4.1 The auditor must make 100 requests on a subset of unique Items made available.

This must result in 100 "Total_Item_Requests" reported in the DR_D1 Standard View.

4.2 Multiple paths should be used to make the requests. When possible, 50% of items requested should be via browsing and 50% via searching. If either browsing to items or accessing items via searching is not possible, then 100% of items requested can be requested via the only available option. The user may think they are browsing a list but in fact be triggering searches. For this reason making requests via browsing may deliver unexpected searches, however the end Item/Title will always be as expected.

4.3 The auditor must allow at least 31 seconds between each test.

4.4 A content provider will pass this audit test when the sum of the "Total_Item_ Requests" reported by the content provider in DR_D1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" on the auditor's report.

5. **Audit-test D1-4: "Total_Item_Requests" 30-second filters**

5.1 To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the

Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

5.2   The audit-test consists of making an Item Request twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between them, then 2 "Total_Item_Requests" must be counted.

5.3   The auditor must carry out a total of 30 tests, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

- "Inside" tests (The 2 requests are made to the same item, and the second request is made within 30 seconds of the first).

- "Outside" tests (The 2 requests are made to the same item, and the second request is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

This must result in 15 "Total_Item_Requests" being reported in the DR_D1 Standard View.

The audit must carry out 15 outside tests.

This must result in 30 "Total_Item_Requests" being reported in the DR_D1 Standard View.

This may not be the case if the content provider operates a cache server.

5.4   The auditor must allow at least 31 seconds between each of the 30 tests.

5.5   A content provider will pass this audit test when the sum of the "Total_Item_Requests" reported by the content provider in DR_D1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" on the auditor's report.

6.   **Audit-test D1-5: "Total_Item_Investigations"**
IMPORTANT NOTE: This test does not need to be carried out where the content provider does not offer Investigations that are not also Requests. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

6.1   The auditor must make 100 Investigations on a subset of unique Items made available to them.

This must result in 100 "Total_Item_Investigations".

6.2   Multiple paths should be used to make the Investigations. When possible, 50% of Items Investigations should be via browsing and 50% via searching. If either browsing to item investigations or accessing item investigations via searching is

not possible, then 100% of item investigations can be made via the only available option. The user may think they are browsing a list, but in fact be triggering searches. For this reason investigations made via browsing may deliver unexpected searches, however the end Investigation will always be as expected.

6.3   The auditor must allow at least 31 seconds between each test.

6.4   A content provider will pass this audit test when the sum of the "Total_Item_ Investigations" reported by the content provider in DR_D1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Investigations" on the auditor's report.

7. **Audit-test D1-6: "Total_Item_Investigations" 30-second filters**
    IMPORTANT NOTE: This test does not need to be carried out where the Content provider does not offer Investigations that are not also Requests. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

7.1   To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period if they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

7.2   The audit-test consists of making an Item Investigation twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_ Item_Investigations" made must be recorded. If the two clicks occur with more than 30 seconds between, then 2 "Total_Item_Investigations" must be counted.

7.3   The auditor must carry out a total of 30 tests, and each test will consist of 2 item investigations. There are 2 types of tests that must be carried out:

- "Inside" tests (Two item investigations are made to the same item the second Item Investigation is made within 30 seconds of the first).

- "Outside" tests (Two item investigations are made to the same item, and the second item investigation is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

This must result in 15 "Total_Item_Investigations" being reported in the DR_D1 Standard View.

The audit must carry out 15 outside tests.

This must result in 30 "Total_Item_Investigations" being reported in the DR_D1 Standard View.

This may not be the case if the content provider operates a cache server.

7.4   The auditor must allow at least 31 seconds between each of the 30 tests.

7.5   A content provider will pass this audit test when the sum of the "Total_Item_ Requests" and "Total_Item_Investigations" reported by the Content provider in DR_ D1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Total_Item_Investigations" on the auditor's report.

8.   **If content provider does not offer investigations that are not also requests, the following figure being reported as a result of the D3-1 and D3-2 audit tests must match in the DR_D1 Standard View:**

"Total_Item_Requests" must match "Total_Item_Investigations"

Audit testsAudit tests D1-1, D1-2 and D1-3, D1-4, DB1-5, and DB1-6 must take place in separate accounts so that each audit test can be separately reported.

Standard View: DR_D2

Databases Access Denied: Reports on access-denied activity for databases where users were denied access because simultaeous-userlicenses were exceeded or their institution did not have a license for the database.

	A	B	C	D	E	F	G	H	I	J	K
1	Report_Name	Database Access Denied									
2	Report_ID	DR_D2									
3	Release	5									
4	Institution_Name	Sample University									
5	Institution_ID	isni=1234567890									
6	Metric_Types	No_License									
7	Report_Filters										
8	Report_Attributes	Access_Method=Regular									
9	Exceptions										
10	Reporting_Period	2017-01-01 to 2017-06-30									
11	Created	2017-05-25									
12	Created_By	Platform X									
13											
14	Database	Publisher	Publisher_ID	Platform	Proprietary_ID	Metric_Type	Reporting_ Period_Tota	Jan-2017	Feb-2017	Mar-2017	Apr-2017
15	Database A	DB Publisher X		PlatformX	pubx:dbA	Limit_Exceeded	194	21	22	11	41
16	Database A	DB Publisher X		PlatformX	pubx:dbA	No_License	135	11	42	9	31
17	Database B	DB Publisher X		PlatformX	pubx:dbB	Limit_Exceeded	170	17	18	7	37
18	Database B	DB Publisher X		PlatformX	pubx:dbB	No_License	111	7	38	5	27

An audit of this Standard View requires the following:

1.   **Audit-test D2-1: "Limit_Exceeded"**
     IMPORTANT NOTE: This test cannot be carried out if the content provider does not offer a concurrent/simultaneous user limit. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

1.2   The account used for this testing must have concurrent/simultaneous-user limit set, and the number of registered users concurrently allowed must be declared by the content provider prior to the testing. Ideally the account should allow a single active user on the site requesting access to the database. This means that a second user accessing the database would be turned away.

1.2   *Option 1:* The content provider turns the user away when the concurrent/simultaneous-user limit is exceeded upon login.

The auditor will log into the site. This means that the user limit is at maximum active users.

The auditor will then attempt to log into the site using a different computer. The auditor should then be refused access because of exceeding the concurrent/simultaneous-user limit. Each time access is refused, the auditor will record this as "Limit_Exceeded".

The auditor must force 50 "Limit_Exceeded" turnaways during testing.

Each of these concurrent/simultaneous turnaways must report 1 "Limit_Exceeded" in the DR_D2 Standard View.

Option 2: The content provider turns the user away when the concurrent/simultaneous user limit is exceeded upon searching or accessing a database.

The auditor will log into the site. This means that the user limit is at maximum active users. The user will then select and make a search on a database (or browse to a database).

The auditor will then log into the site using a different computer. The auditor will then repeat the action made on the previous computer (select and make a search on a database or browse to a database). After the search has been made (or database browsed to) the user should then be refused access because of exceeding the concurrent/simultaneous-user limit. Each time access is refused, the auditor will record this as "Limit_Exceeded".

The auditor must force 50 "Limit_Exceeded" turnaways during testing.

Each of these concurrent/simultaneous turnaways must report 1 "Limit_Exceeded" in the DR_D2 Standard View.

Option 3: The content provider turns the user away when the concurrent/simultaneous-user limit is exceeded upon accessing an Item within a database.

The auditor will log into the site. This means that the user limit is at maximum active users. The user will then navigate to and request an Item.

The auditor will then log into the site using a different computer. The auditor will then repeat the action made on the previous computer (navigate to and request an Item). After the Item has been requested the user should then be refused access because of exceeding the concurrent/simultaneous-user limit. Each time access is refused, the auditor will record this as "Limit_Exceeded".

The auditor must force 50 "Limit_Exceeded" turnaways during testing.

Each of these concurrent/simultaneous turnaways must report 1 "Limit_Exceeded" in the DR_D2 Standard View.

1.3 The auditor must allow at least 31 seconds between each search.

1.4 Each time a turnaway is made, the auditor will record the database on which the turnaway was produced. (In the case of turning away at log in, the database will be "All").

1.5 A content provider will pass this audit test when the sum of the turnaways reported by the content provider in DR_D2 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the turnaways on the auditor's report.

2. **Audit-test D2-2: "No_License"**
IMPORTANT NOTE: This test cannot be carried out if the content provider does not restrict site content or if restricted content is not displayed. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

2.1 The account used for this testing must have restricted access to content, and the content for which the user has no license to access must be declared by the content provider prior to the testing. Alternatively, the content provider may declare the content that the user does have license to access.

2.2 The auditor will attempt to access content to which the account being used does not have access. Each time access is refused, the auditor will record "No_License".

The auditor must force 50 "No_License" turnaways during testing.

Each of these "No License" turnaways must report 1 "No_License" in the DR_D2 Standard View.

2.3 The auditor must allow at least 31 seconds between each search.

2.4 Each time a turnaway is made, the auditor will record the database on which the turnaway was produced.

2.5 A content provider will pass this audit test when the sum of the turnaways reported by the content provider in DR_D2 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the turnaways on the auditor's report.

Audit testsAudit tests D2-1 and D2-2 must take place in separate accounts so that each audit test can be separately reported.

TITLE REPORTS

Master Report: TR

The Title Master Report will be COUNTER-compliant if the following Standard Views pass the COUNTER audits and the figures reported within them match what is reported in the Master Report.

Any Standard View that is not applicable to the content provider does not require auditing, This must be agreed prior to the audit by COUNTER.

Standard View: TR_B1

Book Requests (excluding "OA_Gold"): Reports on full-text activity for non-Gold open access books as "Total_Item_Requests" and "Unique_Title_Requests". The "Unique_Title_Requests" view provides comparable usage across book platforms. The "Total_Item_Requests" view shows overall activity; however, numbers between sites will vary significantly based on how the content is delivered (e.g. delivered as a complete book or by chapter.)

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Report_Name	Book Requests (Excluding OA_Gold)											
2	Report_ID	TR_B1											
3	Release	5											
4	Institution_Name	Sample University											
5	Institution_ID	isni=1234567890											
6	Metric_Types	Total_Item_Requests; Unique_Title_Requests											
7	Report_Filters	Access_Type=Controlled;											
8	Report_Attributes												
9	Exceptions												
10	Reporting_Period	2017-01-01 to 2017-06-30											
11	Created	2017-05-25											
12	Created_By	Platform X											
13													
14	Title	Publisher	Publisher_ID	Platform	DOI	Proprietary_ID	ISBN	Print_ISSN	Online_ISSN	URI	Metric_Type	Reporting_Period_Total	Jan-2017
15	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pubx:bookA	978-12-345-6789-0				Total_Item_Requests		
16	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pubx:bookA	978-12-345-6789-0				Unique_Title_Requests		
17	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pubx:bookB	978-12-345-6781-X				Total_Item_Requests		
18	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pubx:bookB	978-12-345-6781-X				Unique_Title_Requests		

An audit of this Standard View requires the following:

1. **The auditor must have access to all book content available by the content provider.**

2. **The "Access_Type" for all requests must be "Controlled" and not "OA_Gold".**

3. **Audit-test B1-1: "Total_Item_Requests" and "Unique_Title_Requests"**

   3.1   The auditor must make a total of 100 requests on a subset of unique Items within book titles.

   Each title must have 5 Items requested within it (reporting 5 "Total_Item_Requests" and 1 "Unique_Title_Requests").

   This must result in 100 "Total_Item_Requests" being reported in the TR_B1 Standard View.

   This must result in 20 "Unique_Title_Requests" being reported in the TR_B1 Standard View.

3.2   The auditor must allow at least 31 seconds between each test.

3.3   A content provider will pass this audit test when the sum of the "Total_Item_ Requests" and "Unique_Title_Requests" reported by the content provider in TR_B1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Unique_Title_Requests" on the auditor's report.

4.   **Audit-test B1-2: "Total_Item_Requests" and "Unique_Title_Requests" 30-second filters**

1.1   To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

1.2   The audittest consists of clicking links to an Item within a book title twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between, then 2 "Total_Item_Requests" must be counted. In both cases only 1 "Unique_Title_Requests" will be reported.

1.3   The auditor must carry out a total of 30 test, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

- "Inside" tests (Two requests are made to the same Item, and the second request is made within 30 seconds of the first).

- "Outside" tests (Two requests are made to the same Item and the second request is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

Where possible, each title must have 2 Item tests within it (reporting 1 "Total_Item_ Requests" and 1 "Unique_Title_Requests").

This must result in 15 "Total_Item_Requests" and 8 "Unique_Title_Requests" in the TR_B1 Standard View.

This may not be the case if the content provider operates a cache server.

The audit must carry out 15 outside tests.

Where possible, each title must have 2 Items requested within it (reporting 2 "To-tal_Item_Requests" and 1 "Unique_Title_Requests").

This must result in 30 "Total_Item_Requests" and 8 "Unique_Title_Requests" in the TR_B1 Standard View.

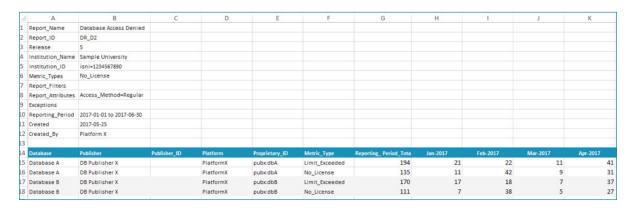This may not be the case if the content provider operates a cache server.

1.4 The auditor must allow at least 31 seconds between each of the 30 tests.

1.5 A Content provider will pass this audit test when the sum of the "Total_Item_ Requests" and "Unique_Title_Requests" reported by the Content provider in TR_B1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Unique_Title_Requests" on the auditor's report.

Audit testsAudit testsAudit tests B1-1 and B1-2 must take place in separate accounts so that each audit test can be separately reported.

Standard View: TR_B2

Book Access Denied: Reports on access denied activity for books where users were denied access because simultaeous-userlicenses were exceeded or their institution did not have a license for the book.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Report_Name	Book Access Denied											
2	Report_ID	TR_B2											
3	Release	5											
4	Institution_Name	Sample University											
5	Institution_ID	isni=1234567890											
6	Metric_Types												
7	Report_Filters	Data_Type=Book; Access_Method=Regular											
8	Report_Attributes												
9	Exceptions												
10	Reporting_Period	2017-01-01 to 2017-06-30											
11	Created	2017-05-25											
12	Created_By	Platform X											
13													
14	Title	Publisher	Publisher_ID	Platform	DOI	Proprietary_ID	ISBN	Print_ISSN	Online_ISSN	URI	Metric_Type	Reporting_Period_Total	Jan-2017
15	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pubx:bookA	978-12-345-6789-0				Limit_Exceeded		
16	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pubx:bookA	978-12-345-6789-0				No_License		
17	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pubx:bookB	978-12-345-6781-X				Limit_Exceeded		
18	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pubx:bookB	978-12-345-6781-X				No_License		

An audit of this Standard View requires the following:

1. **Audit-test B2-1: "Limit_Exceeded"**
   IMPORTANT NOTE: This test cannot be carried out if the content provider does not offer a concurrent/simultaneous user limit. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

1.1 The account used for this testing must have concurrent/simultaneous-user limit set for book title/items and the number of registered users concurrently allowed must be declared by the content provider prior to the testing. Ideally the account should allow a single active user to access books. (This means that a second user accessing books will be turned away).

1.2 The content provider turns the user away when the concurrent/simultaneous-user limit is exceeded for books.

The auditor will log into the site and access a book item, this means that the user limit is at maximum active users.

The auditor will then log into the site using a different computer. The auditor will then repeat the action made on the previous computer (access a book item). After the item has been requested the user should then be refused access because of exceeding the concurrent/simultaneous user limit. Each time access is refused, the auditor will record this as "Limit_Exceeded".

The auditor must force 50 "Limit_Exceeded" turnaways during testing.

Each of these concurrent/simultaneous turnaways must report 1 "Limit_Exceeded" in the TR_B2 Standard View.

1.3 The auditor must allow at least 31 seconds between each request.

1.4 A content provider will pass this audit test when the sum of the "Limit_Exceeded" turnaways reported by the content provider in TR_B2 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Limit_Exceeded" turnaways on the auditor's report.

2. **Audit-test B2-2: No_License**
IMPORTANT NOTE: This test cannot be carried out if the content provider does not restrict site content or where restricted content is not displayed. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

2.1 The account used for this testing must have restricted access to book content, and the book content that the user has no license to access must be declared by the content provider prior to the testing. Alternatively, the content provider may declare the content to which the user does have license to access.

2.2 The auditor will attempt to access book content that the account being used does not have access to. Each time access is refused, the auditor will record "No_License".

The auditor must force 50 "No_License" during testing.

Each of these Book content not licensed turnaways must report 1 "No_License" in the TR_B2 Standard View.

2.3 The auditor must allow at least 31 seconds between each search.

2.4 A content provider will pass this audit test when the sum of the "No_License" turnaways reported by the content provider in TR_B2 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "No_License" turnaways on the auditor's report.

Audit testsAudit testsAudit tests B2-1 and B2-2 must take place in separate accounts so that each audit test can be separately reported.

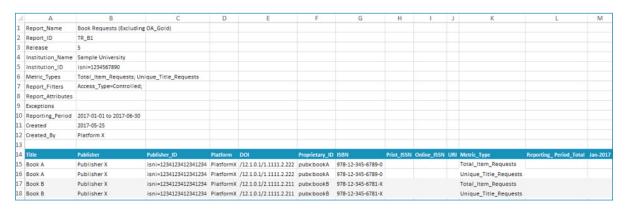## Standard View: TR_B3

Book Usage by Access Type: Reports on book usage showing all applicable metric types broken down by "Access_Type"

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Report_Name	Book Usage by Access Type												
2	Report_ID	TR_B3												
3	Release	5												
4	Institution_Name	Sample University												
5	Institution_ID	isni=1234567890												
6	Metric_Types	Total_Item_Investigations; Total_Item_Requests; Unique_Item_Investigations; Unique_Item_Requests; unique_title_investigations; Unique_Title_Requests												
7	Report_Filters	Data_Type=Book; Access_Method=Regular												
8	Report_Attributes													
9	Exceptions													
10	Reporting_Period	2017-01-01 to 2017-06-30												
11	Created	2017-05-25												
12	Created_By	Platform X												
13														
14	Title	Publisher	Publisher_ID	Platform	DOI	Proprietary_ID	ISBN	Print_ISSN	Online_ISSN	URI	Access_Type	Metric_Type	Reporting_ Period_Total	Jan-2017
15	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				Controlled	Total_Item_Investigations		
16	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				Controlled	Total_Item_Requests		
17	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				Controlled	Unique_Item_Investigations		
18	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				Controlled	Unique_Item_Requests		
19	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				Controlled	Unique_Item_Investigations		
20	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				Controlled	Unique_Title_Requests		
21	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				OA_Gold	Total_Item_Investigations		
22	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				OA_Gold	Total_Item_Requests		
23	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				OA_Gold	Unique_Item_Investigations		
24	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				OA_Gold	Unique_Item_Requests		
25	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				OA_Gold	unique_title_investigations		
26	Book A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1.1111.2.222	pub:cbookA	978-12-345-6789-0				OA_Gold	Unique_Title_Requests		
27	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				Controlled	Total_Item_Investigations;		
28	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				Controlled	Total_Item_Requests;		
29	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				Controlled	Unique_Item_Investigations;		
30	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				Controlled	Unique_Item_Requests;		
31	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				Controlled	unique_title_investigations;		
32	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				Controlled	Unique_Title_Requests		
33	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				OA_Gold	Total_Item_Investigations;		
34	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				OA_Gold	Total_Item_Requests;		
35	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				OA_Gold	Unique_Item_Investigations;		
36	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				OA_Gold	Unique_Item_Requests;		
37	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				OA_Gold	unique_title_investigations;		
38	Book B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/2.1111.2.211	pub:cbookB	978-12-345-6781-X				OA_Gold	Unique_Title_Requests		

An audit of this Standard View requires the following:

1. **The auditor must have access to all book content available by the content provider.**

2. **Audit-test B3-1:Total_Item_Requests, "Unique_Item_Requests" and "Unique_Title_ Requests"**

   2.1   *Option 1:* content provider offers "OA_Gold" Items in addition to "Controlled".

   The auditor must make a total of 100 requests on a subset of unique Items within book titles (50 requests to book Items where the "Access_Type" is "Controlled", and 50 requests to book items where the "Access_Type" is "OA_Gold").

   Each title must have 5 items requested within it (reporting 5 "Total_Item_Requests", 5 Unique_Item_Requests and 1 "Unique_Title_Requests").

   This must result in 50 "OA_Gold" "Total_Item_Requests" and 50 "Controlled" "Total_Item_Requests" being reported in the TR_B3 Standard View.

   This must result in 50 "OA_Gold" "Unique_Item_Requests" and 50 "Controlled" "Unique_Item_Requests" being reported in the TR_B3 Standard View.

   This must result in 10 OA_Gold "Unique_Title_Requests" and 10 "Controlled" "Unique_Title_Requests" being reported in the TR_B3 Standard View.

Option 2: Content provider does not offer "OA_Gold" items.

The auditor must make a total of 100 requests on a subset of unique Items within book titles.

Where possible, each title must have 5 items requested within it (reporting 5 "Total_Item_Requests", 5 "Unique_Item_Requests", and 1 "Unique_Title_Requests").

This must result in 100 "Controlled" "Total_Item_Requests" being reported in the TR_B3 Standard View.

This must result in 100 "Controlled" "Unique_Item_Requests" being reported in the TR_B3 Standard View.

This must result in 20 "Controlled" "Unique_Title_Requests" being reported in the TR_B3 Standard View.

2.2   The auditor must allow at least 31 seconds between each test.

2.3   A content provider will pass this audit test when the sum of the "Total_Item_Requests", "Unique_Item_Requests", and "Unique_Title_Requests" reported by the content provider in TR_B3 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests", "Unique_Item_Requests", and "Unique_Title_Requests" on the auditor's report.

3.   **Audit-test B3-3: "Total_Item_Requests", "Unique_Item_Requests" and "Unique_Title_Requests" 30-second filters**

3.1   To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

3.2   The audit-test consists of clicking links to an Item within a book title twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between, then 2 "Total_Item_Requests" must be counted. In both cases only 1 "Unique_Item_Requests" and "Unique_Title_Requests" will be reported.

3.3   *Option 1:* Content provider offers "OA_Gold" items in addition to "Controlled" items.

The auditor must carry out a total of 30 tests, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

- "Inside" tests (Two requests are made to the same book item, and the second request is made within 30 seconds of the first).

- "Outside" tests (Two requests are made to the same book item, and the second request is made over 30 seconds after the first).

The auditor must carry out 15 inside tests (8 tests to book items where the Access_Type is "Controlled" and 7 tests to book items where the Access_Type is "OA_Gold").

Where possible, each title must have 2 book item tests within it (reporting 2 "Total_Item_Requests", 2 "Unique_Item_Requests", and 1 "Unique_Title_Requests").

This must result in 8 "Controlled" "Total_Item_Requests" and 7 "OA_Gold" "Total_Item_Requests" in the TR_B3 Standard View.

This must result in 8 "Controlled" "Unique_Item_Requests" and 7 "OA_Gold" "Unique_Item_Requests" in the TR_B3 Standard View.

This must result in 4 "Controlled" "Unique_Title_Requests" and 4 "OA_Gold" "Unique_Title_Requests" in the TR_B3 Standard View.

(This may not be the case if the vontent provider operates a cache server.)

The auditor must carry out 15 outside tests (8 tests to book items where the Access_Type is "Controlled" and 7 tests to book items where the Access_Type is "OA_Gold").

Where possible, each title must have 2 book item tests within it (reporting 4 "Total_Item_Requests", 2 "Unique_Item_Requests", and 1 "Unique_Title_Requests").

This must result in 16 "Controlled" "Total_Item_Requests" and 14 "OA_Gold" "Total_Item_Requests" in the TR_B3 Standard View.

This must result in 8 "Controlled" "Unique_Item_Requests" and 7 "OA_Gold" "Unique_Item_Requests" in the TR_B3 Standard View.

This must result in 4 "Controlled" "Unique_Title_Requests" and 4 "OA_Gold" "Unique_Title_Requests" in the TR_B3 Standard View.

(This may not be the case if the content provider operates a cache server.)

Option 2: Content provider does not offer "OA_Gold" Items.

The auditor must carry out a total of 30 tests, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

- "Inside" tests (Two requests are made to the same book item and the second request is made within 30 seconds of the first).

- "Outside" tests (Two requests are made to the same book item, and the second request is made over 30 seconds after the first).

The auditor must carry out 15 inside tests.

Where possible, each title must have 2 book item tests within it (reporting 2 "Total_Item_Requests" and 2 "Unique_Item_Requests" and 1 "Unique_Title_Requests").

This must result in 15 "Controlled" "Total_Item_Requests" in the TR_B3 Standard View.

This must result in 15 "Controlled" "Unique_Item_Requests" in the TR_B3 Standard View.

This must result in 8 "Controlled" "Unique_Title_Requests" in the TR_B3 Standard View.

(This may not be the case if the Content provider operates a cache server.)

The auditor must carry out 15 outside tests.

Each title must have 2 book item tests within it (reporting 4 "Total_Item_Requests", 2 "Unique_Item_Requests", and 1 "Unique_Title_Requests").

This must result in 30 "Controlled" "Total_Item_Requests" in the TR_B3 Standard View.

This must result in 15 "Controlled" "Unique_Item_Requests" in the TR_B3 Standard View.

This must result in 8 "Controlled" "Unique_Title_Requests" in the TR_B3 Standard View.

(This may not be the case if the content provider operates a cache server.)

3.3   The auditor must allow at least 31 seconds between each of the 30 tests.

3.4   A content provider will pass this audit test when the sum of the "Total_Item_Requests", "Unique_Item_Requests", and "Unique_Title_Requests" reported by the content provider in TR_B3 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests", "Unique_Item_Requests", and "Unique_Title_Requests" on the auditor's report.

4.   **Audit-test B3-2: "Total_Item_Investigations", "Unique_Item_Investigations", and Unique_Title_Invstigations**
IMPORTANT NOTE: This test does not need to be carried out if the content provider does not offer investigations that are not also requests. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

4.1 *Option 1:* Content provider offers "OA_Gold" Items in addition to "Controlled".

The auditor must make a total of 50 item investigations within a subset of book titles (25 Investigations of items within a book where the Access_Type is "Controlled", and 25 investigations of items within a book where the Access_Type is "OA_Gold").

Each title must have 5 investigations to unique Items within it (reporting 5 "Total_Item_Investigations", 5 "Unique_Item_Investigations", and 1 Unique_Title_Invstigations).

This must result in 25 "OA_Gold" "Total_Item_Investigations" and 25 "Controlled" "Total_Item_Investigations" being reported in the TR_B3 Standard View.

This must result in 25 "OA_Gold" "Unique_Item_Investigations" and 25 "Controlled" "Unique_Item_Investigations" being reported in the TR_B3 Standard View.

This must result in 5 "OA_Gold" "Unique_Title_Investigations" and 5 "Controlled" "Unique_Title_Investigations" being reported in the TR_B3 Standard View.

Option 2: Content provider does not offer "OA_Gold" Items.

The auditor must make a total of 50 Investigations within a subset of book titles.

Each title must have 5 investigations to unique items within it (reporting 5 "Total_Item_Investigations", 5 "Unique_Item_Investigations", and 1 "Unique_Title_Invstigations").

This must result in 50 "Controlled" "Total_Item_Investigations" being reported in the TR_B3 Standard View.

This must result in 50 "Controlled" "Unique_Item_Investigations" being reported in the TR_B3 Standard View.

This must result in 10 "Controlled" "Unique_Title_Investigations" being reported in the TR_B3 Standard View.

4.2 The auditor must allow at least 31 seconds between each test.

4.3 A content provider will pass this audit test when the sum of the "Total_Item_Investigations", "Unique_Item_Investigations", and "Unique_Title_Investigations" reported by the content provider in TR_B3 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Investigations", "Unique_Item_Investigations", and "Unique_Title_Investigations" on the auditor's report.

5. **Audit test B3-4: "Total_Item_Investigations", "Unique_Item_Investigations", and "Unique_Title_Investigations" 30-second filters**

   IMPORTANT NOTE: This test does not need to be carried out if the content provider does not offer investigations that are not also requests. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

   5.1 To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

   5.2 The audit test consists of clicking links to an investigation of an item within a book title twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Investigations" must be recorded. If the two clicks occur with more than 30 seconds between, then 2 "Total_Item_Investigations" must be counted. In both cases only 1 "Unique_Item_Investigations" and "Unique_Title_Investigations" will be reported.

   5.3 *Option 1:* Content provider offers "OA_Gold" Items in addition to "Controlled".

   The auditor must carry out a total of 30 tests, and each test will consist of 2 item investigations. There are 2 types of tests that must be carried out:

   - "Inside" tests (Two investigations are made to the same book item, and the second investigation is made within 30 seconds of the first).

   - "Outside" tests (Two investigations are made to the same book item, and the second investigation is made more than 30 seconds after the first).

   The auditor must carry out 15 inside tests (8 Investigations to book items where the "Access_Type" is "Controlled" and 7 investigations to book items where the "Access_Type" is "OA_Gold").

   Each title must have 2 book item tests within it (reporting 2 "Total_Item_Investigations", 2 "Unique_Item_Investigations", and 1 "Unique_Item_Investigations").

   This must result in 8 "Controlled" "Total_Item_Investigations" and 7 "OA_Gold" "Total_Item_Investigations" in the TR_B3 Standard View.

   This must result in 8 "Controlled" "Unique_Item_Investigations" and 7 "OA_Gold" "Unique_Item_Investigations" in the TR_B3 Standard View.

   This must result in 4 "Controlled" "Unique_Title_Investigations" and 4 "OA_Gold" "Unique_Title_Investigations" in the TR_B3 Standard View.

This may not be the case if the content provider operates a cache server.

The auditor must carry out 15 outside tests (8 tests to book items where the "Access_Type" is "Controlled" and 7 tests to book items where the "Access_Type" is "OA_Gold").

Each title must have 2 book item tests within it (reporting 4 "Total_Item_Investigations", 2 "Unique_Item_Investigations", and 1 "Unique_Title_Investigations").

This must result in 16 "Controlled" "Total_Item_Investigations" and 14 "OA_Gold" "Total_Item_Investigations" in the TR_B3 Standard View.

This must result in 8 "Controlled" "Unique_Item_Investigations" and 7 "OA_Gold" "Unique_Item_Investigations" in the TR_B3 Standard View.

This must result in 4 "Controlled" "Unique_Title_Investigations" and 4 "OA_Gold" "Unique_Title_Investigations" in the TR_B3 Standard View.

This may not be the case if the content provider operates a cache server.

Option 2: Content provider does not offer "OA_Gold" items.

The auditor must carry out a total of 30 tests, and each test will consist of 2 item investigations. There are 2 types of tests that must be carried out:

- "Inside" tests (Two investigations are made to the same book item, and the second investigation is made within 30 seconds of the first).

- "Outside" tests (Two investigations are made to the same book item, and the second investigation is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

Each title must have 2 book item tests within it (reporting 2 "Total_Item_Investigations", 2 "Unique_Item_Investigations", and 1 "Unique_Title_Investigations").

This must result in 15 "Controlled" "Total_Item_Investigations" in the TR_B3 Standard View.

This must result in 15 "Controlled" "Unique_Item_Investigations" in the TR_B3 Standard View.

This must result in 8 "Controlled" "Unique_Title_Investigations" in the TR_B3 Standard View.

This may not be the case if the content provider operates a cache server.

The auditor must carry out 15 outside tests.

Each title must have 2 book item tests within it (reporting 4 "Total_Item_Investigations", 2 "Unique_Item_Investigations", and 1 "Unique_Title_Investigations").

This must result in 30 "Controlled" "Total_Item_Investigations" in the TR_B3 Standard View.

This must result in 15 "Controlled" "Unique_Item_Investigations" in the TR_B3 Standard View.

This must result in 8 "Controlled" "Unique_Title_Investigations" in the TR_B3 Standard View.

This may not be the case if the content provider operates a cache server.

5.4   The auditor must allow at least 31 seconds between each of the 30 tests.

5.5   A content provider will pass this audit test when the sum of the "Total_Item_Investigations", "Unique_Item_Investigations", and "Unique_Title_Investigations" reported by the content provider in TR_B3 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Investigations", "Unique_Item_Investigations", and "Unique_Title_Investigations" on the auditor's report.

6.   **If content provider does not offer Investigations that are not also requests, the following figure being reported as a result of the B3-1 and B3-2 audit tests must match in the TR_B3 Standard View:**

"Total_Item_Requests" must match "Total_Item_Investigations"

"Unique_Item_Requests" must match "Unique_Item_Investigations"

"Unique_Title_Requests" must match "Unique_Title_Investigations"

Audit tests B3-1, B3-2, B3-3, and B3-4 must take place in separate accounts so that each audit test can be separately reported.

Standard View: TR_J1

Journal Requests (excluding "OA_Gold"): Reports on usage of non-Gold open access journal content as "Total_Item_Requests" and "Unique_Item_Requests". The "Unique_Item_Requests" provides comparable usage across journal platform by reducing the inflationary effect that occurs when an HTML full text automatically displays and the user then accesses the PDF version. The "Total_Item_Requests" shows overall activity.

	A	B	C	D	E	F	G	H	I	J	K	L
1	Report_Name	Journal Requests (Excluding OA_Gold)										
2	Report_ID	TR_J1										
3	Release	5										
4	Institution_Name	Sample University										
5	Institution_ID	isni=1234567890										
6	Metric_Types	Total_Item_Requests; Unique_Item_Requests										
7	Report_Filters	Data_Type=Journal; Access_Type=Controlled; Access_Method=Regular										
8	Report_Attributes											
9	Exceptions											
10	Reporting_Period	2017-01-01 to 2017-06-30										
11	Created	2017-05-25										
12	Created_By	Platform X										
13												
14	Title	Publisher	Publisher_ID	Platform	DOI	Proprietary_ID	Print_ISSN	Online_ISSN	URI	Metric_Type	Reporting_Period_Total	Jan-2017
15	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pub:c:jnlA	1111-22222	1111-1223		Total_Item_Requests		
16	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pub:c:jnlA	1111-22222	1111-1223		Unique_Item_Requests		
17	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pub:c:jnlB	1111-22211	1111-1213		Total_Item_Requests		
18	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pub:c:jnlB	1111-22211	1111-1213		Unique_Item_Requests		

An audit of this Standard View requires the following:

1. **The auditor must have access to all journal content available by the content provider.**

2. **The "Access_Type" for all requests must be "Controlled" and not "OA_Gold".**

3. **Audit-test J1-1: "Total_Item_Requests" and "Unique_Item_Requests"**

   3.1 The auditor must make a total of 100 requests on a subset of unique Journal Items.

   This must result in 100 "Total_Item_Requests" being reported in the TR_J1 Standard View.

   This must result in 100 "Unique_Item_Requests" being reported in the TR_J1 Standard View.

   3.2 The auditor must allow at least 31 seconds between each test.

   3.3 A content provider will pass this audit test when the sum of the "Total_Item_Requests" and "Unique_Item_Requests" reported by the content provider in TR_J1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Unique_Item_Requests" on the auditor's report.

4. **Audit-test J1-2: "Total_Item_Requests" and "Unique_Item_Requests" 30-second filters**

   4.1 To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period iwether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

   4.2 The audit-test consists of clicking links to a journal item twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between, then 2 "Total_Item_Requests" must be counted. In both cases only 1 "Unique_Item_Requests" will be reported.

   4.3 The auditor must carry out a total of 30 tests, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

   - "Inside" tests (Two requests are made to the same journal item, and the second request is made within 30 seconds of the first).

   - "Outside" tests (Two requests are made to the same journal item, and the second request is made over 30 seconds after the first).

   The auditor must carry out 15 inside tests.

This must result in 15 "Total_Item_Requests" and 15 "Unique_Item_Requests" in the TR_J1 Standard View.

This may not be the case if the content provider operates a cache server.

The audit must carry out 15 outside tests.

This must result in 30 "Total_Item_Requests" and 15 "Unique_Item_Requests" in the TR_J1 Standard View.

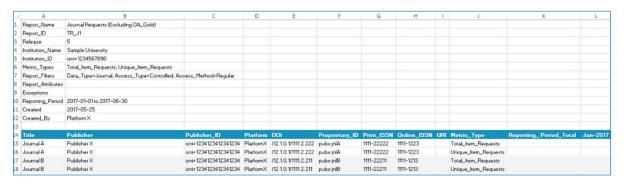This may not be the case if the content provider operates a cache server.

4.4   The auditor must allow at least 31 seconds between each of the 30 tests.

4.5   A content provider will pass this audit test when the sum of the "Total_Item_ Requests" and "Unique_Item_Requests" reported by the content provider in TR_J1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Unique_Item_Requests" on the auditor's report.

Audit tests J1-1 and J1-2 must take place in separate accounts so that each audit test can be separately reported.

Standard View: TR_J2

Journal Accessed Denied: Reports on Access Denied activity for journal content where users were denied access because simultaeous-userlicenses were exceeded or their institution did not have a license for the title.

	A	B	C	D	E	F	G	H	I	J	K	L
1	Report_Name	Journal Access Denied										
2	Report_ID	TR_J2										
3	Release	5										
4	Institution_Name	Sample University										
5	Institution_ID	isni=1234567890										
6	Metric_Types	Limit_Exceeded; No_License										
7	Report_Filters	Data_Type=Journal; Access_Method=Regular										
8	Report_Attributes											
9	Exceptions											
10	Reporting_Period	2017-01-01 to 2017-06-30										
11	Created	2017-05-25										
12	Created_By	Platform X										
13												
14	Title	Publisher	Publisher_ID	Platform	DOI	Proprietary_ID	Print_ISSN	Online_ISSN	URI	Metric_Type	Reporting_ Period_Total	Jan-2017
15	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubx:jnlA	1111-22222	1111-1223		Limit_Exceeded		
16	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubx:jnlA	1111-22222	1111-1223		No_License		
17	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubx:jnlB	1111-22211	1111-1213		Limit_Exceeded		
18	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubx:jnlB	1111-22211	1111-1213		No_License		

An audit of this Standard View requires the following:

1. **Audit-test J2-1: "Limit_Exceeded"**
    IMPORTANT NOTE: This test cannot be carried out where the content provider does not offer a concurrent/simultaneous-user limit. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

    1.1   The account used for this testing must have a concurrent/simultaneous-user limit set for journal items, and the number of registered users concurrently allowed

must be declared by the content provider prior to the testing. Ideally, the account should allow a single active user to access journals. This means that a second user accessing journals will be turned away.

1.2 The content provider turns the user away when the concurrent/simultaneous-user limit is exceeded for journals.

The auditor will log into the site and access a journal item. This means that the user limit is at maximum active users.

The auditor will then log into the site using a different computer. The auditor will then repeat the action made on the previous computer (access a journal item). After the Item has been requested, the user should then be refused access because of exceeding the concurrent/simultaneous-user limit. Each time access is refused, the auditor will record this as "Limit_Exceeded".

The auditor must force 50 "Limit_Exceeded" turnaways during testing.

Each of these concurrent/simultaneous turnaways must report 1 "Limit_Exceeded" in the TR_J2 Standard View.

1.3 The auditor must allow at least 31 seconds between each request.

1.4 A content provider will pass this audit test when the sum of the "Limit_Exceeded" turnaways reported by the content provider in TR_J2 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Limit_ Exceeded" turnaways on the auditor's report.

2. **Audit-test J2-2: "No_License"**
IMPORTANT NOTE: This test cannot be carried out if the content provider does not restrict site content or where restricted content is not displayed. This must be declared to the auditor and the COUNTER Executive Committee prior to testing.

2.1 The account used for this testing must have restricted access to journal content, and the journal content that the user has no license to access must be declared by the content provider prior to the testing. Alternatively, the content provider may declare the content that the user does have license to access.

2.2 The auditor will attempt to access journal content that the account being used does not have access to. Each time access is refused, the auditor will record "No_License".

The auditor must force 50 "No_License" turnaways during testing.

Each of these journal content not licensed turnaways must report 1 "No_License" in the TR_J2 Standard View.

2.3 The auditor must allow at least 31 seconds between each search.

2.4 A content provider will pass this audit test when the sum of the "No_License" turnaways reported by the content provider in TR_J2 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "No_ License" turnaways on the auditor's report.

Audit tests J2-1 and J2-2 must take place in separate accounts so that each audit test can be separately reported.

Standard View: TR_J3

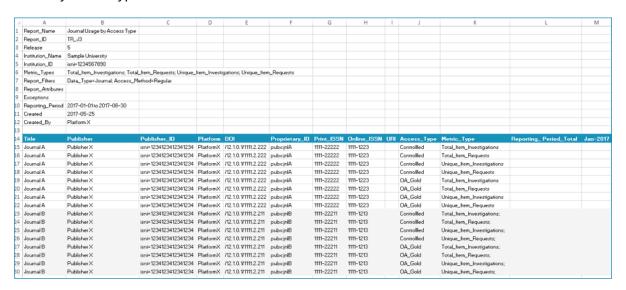Journal Usage by Access Type: Reports on usage of journal content for all metric types broken down by access type.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Report_Name	Journal Usage by Access Type											
2	Report_ID	TR_J3											
3	Release	5											
4	Institution_Name	Sample University											
5	Institution_ID	isni=1234567890											
6	Metric_Types	Total_Item_Investigations; Total_Item_Requests; Unique_Item_Investigations; Unique_Item_Requests											
7	Report_Filters	Data_Type=Journal; Access_Method=Regular											
8	Report_Attributes												
9	Exceptions												
10	Reporting_Period	2017-01-01 to 2017-06-30											
11	Created	2017-05-25											
12	Created_By	Platform X											
13													
14	Title	Publisher	Publisher_ID	Platform	DOI	Proprietary_ID	Print_ISSN	Online_ISSN	URI	Access_Type	Metric_Type	Reporting_ Period_Total	Jan-2017
15	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubicjnlA	1111-22222	1111-1223		Controlled	Total_Item_Investigations		
16	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubicjnlA	1111-22222	1111-1223		Controlled	Total_Item_Requests		
17	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubicjnlA	1111-22222	1111-1223		Controlled	Unique_Item_Investigations		
18	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubicjnlA	1111-22222	1111-1223		Controlled	Unique_Item_Requests		
19	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubicjnlA	1111-22222	1111-1223		OA_Gold	Total_Item_Investigations		
20	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubicjnlA	1111-22222	1111-1223		OA_Gold	Total_Item_Requests		
21	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubicjnlA	1111-22222	1111-1223		OA_Gold	Unique_Item_Investigations		
22	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubicjnlA	1111-22222	1111-1223		OA_Gold	Unique_Item_Requests		
23	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubicjnlB	1111-22211	1111-1213		Controlled	Total_Item_Investigations;		
24	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubicjnlB	1111-22211	1111-1213		Controlled	Total_Item_Requests;		
25	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubicjnlB	1111-22211	1111-1213		Controlled	Unique_Item_Investigations;		
26	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubicjnlB	1111-22211	1111-1213		Controlled	Unique_Item_Requests;		
27	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubicjnlB	1111-22211	1111-1213		OA_Gold	Total_Item_Investigations;		
28	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubicjnlB	1111-22211	1111-1213		OA_Gold	Total_Item_Requests;		
29	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubicjnlB	1111-22211	1111-1213		OA_Gold	Unique_Item_Investigations;		
30	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubicjnlB	1111-22211	1111-1213		OA_Gold	Unique_Item_Requests;		

An audit of this Standard View requires the following:

1. **The auditor must have access to all journal content available by the content provider.**

2. **Audit-test J3-1:Total_Item_Requests and "Unique_Item_Requests"**

   2.1 *Option 1:* Content provider offers "OA_Gold" items in addition to "Controlled".

   The auditor must make a total of 100 requests on a subset of unique journal Items (50 requests to journal Items where the "Access_Type" is "Controlled" and 50 requests to journal items where the "Access_Type" is "OA_Gold").

   This must result in 50 "OA_Gold" "Total_Item_Requests" and 50 "Controlled" "Total_Item_Requests" being reported in the TR_J3 Standard View.

   This must result in 50 "OA_Gold" "Unique_Item_Requests" and 50 "Controlled" "Unique_Item_Requests" being reported in the TR_J3 Standard View.

   Option 2: Content provider does not offer "OA_Gold" Items.

   The auditor must make a total of 100 requests on a subset of unique journal Items.

This must result in 100 "Controlled" "Total_Item_Requests" being reported in the TR_J3 Standard View.

This must result in 100 "Controlled" "Unique_Item_Requests" being reported in the TR_J3 Standard View.

2.2   The auditor must allow at least 31 seconds between each test.

2.3   A content provider will pass this audit test when the sum of the "Total_Item_ Requests" and "Unique_Item_Requests" reported by the content provider in TR_J3 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Unique_Item_Requests" on the auditor's report.

3.   **Audit-test J3-2: "Total_Item_Investigations" and "Unique_Item_Investigations"**

3.1   *Option 1:* Content provider offers "OA_Gold" Items in addition to "Controlled".

The auditor must make a total of 50 investigations to a subset of unique journal items (25 Investigations of journal items where the "Access_Type" is "Controlled" and 25 Investigations of journal items where the "Access_Type" is "OA_Gold").

This must result in 25 "OA_Gold" "Total_Item_Investigations" and 25 "Controlled" "Total_Item_Investigations" being reported in the TR_J3 Standard View.

This must result in 25 "OA_Gold" "Unique_Item_Investigations" and 25 "Controlled" "Unique_Item_Investigations" being reported in the TR_J3 Standard View.

Option 2: Content provider does not offer "OA_Gold" Items.

The auditor must make a total of 50 investigations to a subset of unique Journal Items.

This must result in 50 "Controlled" "Total_Item_Investigations" being reported in the TR_J3 Standard View.

This must result in 50 "Controlled" "Unique_Item_Investigations" being reported in the TR_J3 Standard View.

3.2   The auditor must allow at least 31 seconds between each test.

3.3   A content provider will pass this audit test when the sum of the "Total_Item_ Investigations" and "Unique_Item_Investigations" reported by the content provider in TR_J3 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Investigations" and "Unique_Item_ Investigations" on the auditor's report.

4. **Audit-test J3-3: "Total_Item_Requests" and "Unique_Item_Requests"**

4.1   To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

4.2   The audit-test consists of clicking links to a journal item twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between them, then 2 "Total_Item_Requests" must be counted. In both cases only 1 "Unique_Item_Requests" will be reported.

4.3   *Option 1:* Content provider offers "OA_Gold" Items in addition to "Controlled".

The auditor must carry out a total of 30 tests, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

- "Inside" tests (Two requests are made to the same journal item, and the second request is made within 30 seconds of the first).

- "Outside" tests (Two requests are made to the same journal item and the second request is made over 30 seconds after the first).

The auditor must carry out 15 inside tests (8 tests to journal items where the "Access_Type" is "Controlled" and 7 tests to journal items where the "Access_Type" is "OA_Gold").

This must result in 8 "Controlled" "Total_Item_Requests" and 7 "OA_Gold" "Total_Item_Requests" in the TR_J3 Standard View.

This must result in 8 "Controlled" "Unique_Item_Requests" and 7 "OA_Gold" "Unique_Item_Requests" in the TR_J3 Standard View.

This may not be the case if the content provider operates a cache server.

The auditor must carry out 15 outside tests (8 tests to journal items where the "Access_Type" is "Controlled" and 7 tests to journal items where the "Access_Type" is "OA_Gold").

This must result in 16 "Controlled" "Total_Item_Requests" and 14 "OA_Gold" "Total_Item_Requests" in the TR_J3 Standard View.

This must result in 8 "Controlled" "Unique_Item_Requests" and 7 "OA_Gold" "Unique_Item_Requests" in the TR_J3 Standard View.

This may not be the case if the content provider operates a cache server.

Option 2: Content provider does not offer "OA_Gold" Items.

The auditor must carry out a total of 30 tests, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

- "Inside" tests (Two requests are made to the same journal item, and the second request is made within 30 seconds of the first).

- "Outside" tests (Two requests are made to the same journal item, and the second request is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

This must result in 15 "Controlled" "Total_Item_Requests" in the TR_J3 Standard View.

This must result in 15 "Controlled" "Unique_Item_Requests" in the TR_J3 Standard View.

This may not be the case if the content provider operates a cache server.

The auditor must carry out 15 outside tests.

This must result in 30 "Controlled" "Total_Item_Requests" in the TR_J3 Standard View.

This must result in 15 "Controlled" "Unique_Item_Requests" in the TR_J3 Standard View.

This may not be the case if the content provider operates a cache server.

4.4 The auditor must allow at least 31 seconds between each of the 30 tests.

4.5 A content provider will pass this audit test when the sum of the "Total_Item_Requests" and "Unique_Item_Requests" reported by the content provider in TR_J3 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Unique_Item_Requests" on the auditor's report.

5. **Audit test J3-4: "Total_Item_Investigations" and "Unique_Item_Investigations" 30-second filters**

5.1 To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

5.2 The audit-test consists of clicking links to an Investigation of a Journal Item twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between them, then 2 "Total_Item_Requests" must be counted. In both cases only 1 "Unique_Item_Requests" and "Unique_Title_Requests" will be reported.

5.3 *Option 1:* Content provider offers "OA_Gold" Items in addition to "Controlled".

The auditor must carry out a total of 30 tests, and each test will consist of 2 Investigations. There are 2 types of tests that must be carried out:

- "Inside" tests (Two investigations are made to the same journal item, and the second request is made within 30 seconds of the first).

- "Outside" tests (Two investigations are made to the same journal item, and the second request is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests (8 tests to journal items where the "Access_Type" is "Controlled" and 7 tests to journal items where the "Access_Type" is "OA_Gold").

This must result in 8 "Controlled" "Total_Item_Investigations" and 7 "OA_Gold" "Total_Item_Investigations" in the TR_J3 Standard View.

This must result in 8 "Controlled" "Unique_Item_Investigations" and 7 "OA_Gold" "Unique_Item_Investigations" in the TR_J3 Standard View.

This may not be the case if the content provider operates a cache server.

The auditor must carry out 15 outside tests (8 tests to journal items where the "Access_Type" is "Controlled" and 7 tests to journal items where the "Access_Type" is "OA_Gold").

This must result in 16 "Controlled" "Total_Item_Investigations" and 14 "OA_Gold" "Total_Item_Investigations" in the TR_J3 Standard View.

This must result in 8 "Controlled" "Unique_Item_Investigations" and 7 "OA_Gold" "Unique_Item_Investigations" in the TR_J3 Standard View.

This may not be the case if the content provider operates a cache server.

Option 2: Content provider does not offer "OA_Gold" Items.

The auditor must carry out a total of 30 tests, and each test will consist of 2 Investigations. There are 2 types of tests that must be carried out:

- "Inside" tests (Two investigations are made to the same book item, and the second request is made within 30 seconds of the first).

- "Outside" tests (Two investigations are made to the same book item, and the second request is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

This must result in 15 "Controlled" "Total_Item_Investigations" in the TR_J3 Standard View.

This must result in 15 "Controlled" "Unique_Item_Investigations" in the TR_J3 Standard View.

This may not be the case if the content provider operates a cache server.

The auditor must carry out 15 outside tests.

This must result in 30 "Controlled" "Total_Item_Investigations" in the TR_J3 Standard View.

This must result in 15 "Controlled" "Unique_Item_Investigations" in the TR_J3 Standard View.
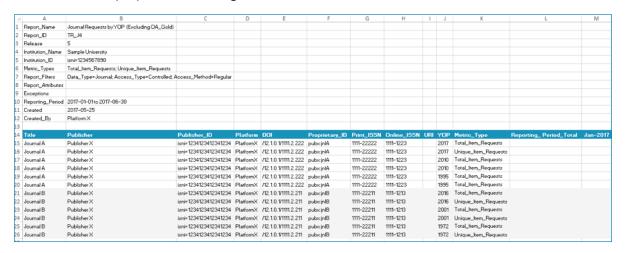
This may not be the case if the content provider operates a cache server.

5.4   The auditor must allow at least 31 seconds between each of the 30 tests.

5.5   A content provider will pass this audit test when the sum of the "Total_Item_Investigations" and "Unique_Item_Investigations" reported by the content provider in TR_J3 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Investigations" and "Unique_Item_Investigations" on the auditor's report.

Audit tests J3-1, J3-2, J3-3, and J3-4 must take place in separate accounts so that each audit test can be separately reported.

Standard View: TR_J4

Journal Requests by "YOP" (excluding "OA_Gold"): Breaks down the usage of non-Gold pen Access journal content by year of publication ("YOP") providing counts for the metric types "Total_Item_Requests" and "Unique_Item_Requests". Provides the details necessary to analyze usage of content in backfiles or covered by perpetual access agreement. Note: COUNTER reports do not provide access model or perpetual access rights details.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Report_Name	Journal Requests by YOP (Excluding OA_Gold)											
2	Report_ID	TR_J4											
3	Release	5											
4	Institution_Name	Sample University											
5	Institution_ID	isni=1234567890											
6	Metric_Types	Total_Item_Requests; Unique_Item_Requests											
7	Report_Filters	Data_Type=Journal; Access_Type=Controlled; Access_Method=Regular											
8	Report_Attributes												
9	Exceptions												
10	Reporting_Period	2017-01-01 to 2017-06-30											
11	Created	2017-05-25											
12	Created_By	Platform X											
13													
14	Title	Publisher	Publisher_ID	Platform	DOI	Proprietary_ID	Print_ISSN	Online_ISSN	URI	YOP	Metric_Type	Reporting_ Period_Total	Jan-2017
15	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubx:jnlA	1111-22222	1111-1223		2017	Total_Item_Requests		
16	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubx:jnlA	1111-22222	1111-1223		2017	Unique_Item_Requests		
17	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubx:jnlA	1111-22222	1111-1223		2010	Total_Item_Requests		
18	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubx:jnlA	1111-22222	1111-1223		2010	Total_Item_Requests		
19	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubx:jnlA	1111-22222	1111-1223		1995	Total_Item_Requests		
20	Journal A	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.222	pubx:jnlA	1111-22222	1111-1223		1995	Total_Item_Requests		
21	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubx:jnlB	1111-22211	1111-1213		2016	Total_Item_Requests		
22	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubx:jnlB	1111-22211	1111-1213		2016	Unique_Item_Requests		
23	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubx:jnlB	1111-22211	1111-1213		2001	Total_Item_Requests		
24	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubx:jnlB	1111-22211	1111-1213		2001	Unique_Item_Requests		
25	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubx:jnlB	1111-22211	1111-1213		1972	Total_Item_Requests		
26	Journal B	Publisher X	isni=1234123412341234	PlatformX	/12.1.0.1/1111.2.211	pubx:jnlB	1111-22211	1111-1213		1972	Unique_Item_Requests		

An audit of this Standard View requires the following:

1. **The auditor must have access to all journal content available by the content provider.**

2. **The "Access_Type" for all requests must be "Controlled" and not "OA_Gold".**

3. **The auditor must record the Year of Publication ("YOP") of every item accessed during audit testing.**

4. **The auditor must ensure that some full-text articles from different years of the same journal are requested during the J4-1 and J4-2 tests. Hence, the auditor should know the numbers expected to appear against each Year of Publication ("YOP") in the TR_J4 report.**

5. **Audit-test J4-1: "Total_Item_Requests" and "Unique_Item_Requests"**

   5.1   The auditor must make a total of 100 requests on a subset of unique Journal Items.

   This must result in 100 "Total_Item_Requests" being reported in the TR_J4 Standard View.

   This must result in 100 "Unique_Item_Requests" being reported in the TR_J4 Standard View.

   5.2   The auditor must allow at least 31 seconds between each test.

   5.3   A content provider will pass this audit test when the sum of the "Total_Item_Requests" and "Unique_Item_Requests" reported by the content provider in TR_J4 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Unique_Item_Requests" on the auditor's report.

   The auditor must confirm the Year of Publication ("YOP") of articles covered in J4-1 with appropriate and proportionate spot checks, unless the article is "YOP unknown".

6. **Audit-test J4-2: "Total_Item_Requests" and "Unique_Item_Requests" 30-second filters**

   6.1   To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

   6.2   The audit-test consists of clicking links to a Journal Item twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between, then 2 "Total_Item_Requests" must be counted. In both cases only 1 "Unique_Item_Requests" will be reported.

6.3   The auditor must carry out a total of 30 tests, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

- "Inside" tests (Two Item requests are made to the same journal item and the second request is made within 30 seconds of the first).

- "Outside" tests (Two item requests are made to the same journal item, and the second request is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

This must result in 15 "Total_Item_Requests" and 15 "Unique_Item_Requests" in the TR_J4 Standard View.

This may not be the case if the content provider operates a cache server.

The audit must carry out 15 outside tests.

This must result in 30 "Total_Item_Requests" and 15 "Unique_Item_Requests" in the TR_J4 Standard View.

This may not be the case if the content provider operates a cache server.

6.4   The auditor must allow at least 31 seconds between each of the 30 tests.

6.5   A content provider will pass this audit test when the sum of the "Total_Item_Requests" and "Unique_Item_Requests" reported by the content provider in TR_J1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" and "Unique_Item_Requests" on the auditor's report.

The auditor must confirm the Year of Publication (YOP) of articles covered in J4-2 with appropriate and proportionate spot checks, unless the article is "YOP unknown".

Audit tests J4-1 and J4-2 must take place in separate accounts so that each audit test can be separately reported.

ITEM REPORTS

Master Report: IR

The Item Master Report will be COUNTER compliant if the following Standard Views pass the COUNTER audits and the figures reported within them match what is reported in the Master Report.

Any Standard View that is not applicable to the content provider does not require auditing. This must be agreed prior to the audit by COUNTER.

Standard View: IR_A1

Reports on journal article requests at the article level. This report is limited to content with a "Data_Type" of Journal, "Section_Type" of article, and metric types of "Total_Item_Requests".

An audit of this Standard View requires the following:

1. **The auditor must have access to all journal article content available by the content provider.**

2. **Audit-test A1-1: "Total_Item_Requests"**

   2.1   The auditor must make a total of 100 requests on a subset of journal article Items.

   This must result in 100 "Total_Item_Requests" being reported in the IR_A1 Standard View.

   2.2   The auditor must allow at least 31 seconds between each test.

   2.3   A content provider will pass this audit test when the sum of the "Total_Item_ Requests" reported by the content provider in IR_A1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_ Item_Requests" on the auditor's report.

3. **Audit-test A1-2: "Total_Item_Requests" 30-second filters**

   3.1   To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period whether or not they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

   3.2   The audit-test consists of clicking links to a Journal Article Item twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between, then 2 "Total_Item_Requests" must be counted.

   3.3   The auditor must carry out a total of 30 tests, and each test will consist of 2 requests. There are 2 types of tests that must be carried out:

   - "Inside" tests (Two requests are made to the same journal article item, and the second request is made within 30 seconds of the first).

   - "Outside" tests (Two requests are made to the same journal article item, and the second request is made more than 30 seconds after the first).

The auditor must carry out 15 inside tests.

This must result in 15 "Total_Item_Requests" in the IR_A1 Standard View.

This may not be the case if the content provider operates a cache server.

The audit must carry out 15 outside tests.

This must result in 30 "Total_Item_Requests" in the IR_A1 Standard View.

This may not be the case if the content provider operates a cache server.

3.4 The auditor must allow at least 31 seconds between each of the 30 tests.

3.5 A content provider will pass this audit test when the sum of the "Total_Item_Requests" reported by the content provider in IR_A1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" on the auditor's report.

Audit tests A1-1 and A1-2 must take place in separate accounts so that each audit test can be separately reported.

Standard View: IR_M1

Reports on multimedia requests at the item level.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Report_Name	Multimedia Item Requests													
2	Report_ID	IR_M1													
3	Release	5													
4	Institution_Name	Sample University													
5	Institution_ID	isni=1234567890													
6	Metric_Types	Total_Item_Requests													
7	Report_Filters	Data_Type=Multimedia; Access_Method=Regular													
8	Report_Attributes														
9	Exceptions														
10	Reporting_Period	2017-01-01 to 2017-06-30													
11	Created	2017-05-25													
12	Created_By	Platform X													
13															
14	Item	Publisher	Publisher_ID	Platform	DOI	Proprietary_ID	URI	Metric_Type	Reporting_Period_Total	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017

An audit of this Standard View requires the following:

1. **The auditor must have access to all multimedia content available by the content provider.**

2. **Audit-test M1-1: "Total_Item_Requests"**

2.1 The auditor must make a total of 100 requests on a subset of multimedia items.

This must result in 100 "Total_Item_Requests" being reported in the IR_M1 Standard View.

2.2 The auditor must allow at least 31 seconds between each test.

2.3 A content provider will pass this audit test when the sum of the "Total_Item_Requests" reported by the content provider in IR_M1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" on the auditor's report.

3. **Audit-test M1-2: "Total_Item_Requests" 30-second filters**

3.1 To ensure that the report is counting correctly as per the COUNTER Code of Practice, it is important that the browser cache settings of the machines used for testing are disabled. It is also important that the auditee confirms before the audit period if they operate a cache server. If they do, this test will not report as the Code of Practice expects and is likely to under-report successive searches outside the double-click threshold.

3.2 The audit-test consists of clicking links to a multimedia item twice in succession (double-clicks). If the two clicks occur within a 30-second time-span, only the second "Total_Item_Requests" must be recorded. If the two clicks occur with more than 30 seconds between, then 2 "Total_Item_Requests" must be counted.

3.3 The auditor must carry out a total of 30 tests, and each test will consist of 2 requests). There are 2 types of tests that must be carried out:

- "Inside" tests (Two requests are made to the same multimedia item and the second request is made within 30 seconds of the first).

- "Outside" tests (Two requests are made to the same multimedia item, and the second request is made more than30 seconds after the first).

The auditor must carry out 15 inside tests.

This must result in 15 "Total_Item_Requests" in the IR_M1 Standard View.

This may not be the case if the content provider operates a cache server.

The audit must carry out 15 outside tests.

This must result in 30 "Total_Item_Requests" in the IR_M1 Standard View.

This may not be the case if the content provider operates a cache server.

3.4 The auditor must allow at least 31 seconds between each of the 30 tests.

3.5 A content provider will pass this audit test when the sum of the "Total_Item_Requests" reported by the content provider in IR_M1 Standard View for the auditor's test account is within a -8% and +3% reliability window of the sum of the "Total_Item_Requests" on the auditor's report.

Audit tests M1-1 and M1-2 must take place in separate accounts so that each audit test can be separately reported.

Stage 3. Report Delivery: Checking delivery of the reports

In addition to verifying the delivery of reports in a tabular format, the auditor will check that the COUNTER reports are downloadable using the SUSHI protocol. This may be tested using the COUNTER Report Validation Tool, an open-source tool that provides a series of web-forms and guidance to take users through the steps and parameters needed to connect successfully to SUSHI servers and download content provider reports. The COUNTER Report Validation Tool may be found at: http://validate.projectcounter.org.

A content provider will only pass an audit test if the XML-formatted report produced via SUSHI matches the total of the relevant usage counted on the equivalent tabular report offered by the content provider. In other words, a report should produce the same results irrespective of the format in which it is delivered.

APPENDIX F HANDLING ERRORS AND EXCEPTIONS

As a rule, the structure of the SUSHI response will be governed by the SUSHI schema; therefore, any error conditions that can be reported will be specified within the SUSHI response. The following is a definition of the SUSHI OpenAPI Specification that shows the format of the exception.

```
"SUSHI_errorModel": {
      "type": "object",
      "description": "Generalized format for presenting errors and exceptions.",
      "required": [
          "code",
          "severity",
          "message"
      ],
      "properties": {
          "code": {
              "type": "integer",
              "format": "int32",
              "description": "Error number. See table of errors.",
              "example": 3040
          },
          "severity": {
              "type": "string",
              "description": "Severity of the error.",
              "example": "Warning",
              "enum": [
                  "Warning",
                  "Fatal",
                  "Debug",
                  "Info"
              ]
          },
          "message": {
              "type": "string",
              "description": "Text describing the error.",
              "example": "Partial Data Returned."
          },
          "helpURL": {
              "type": "string",
              "description": "URL describing error details."
          },
          "data": {
              "type": "string",
              "description": "Additional data provided to clarify the error.",
              "example": "Usage data has not been processed for all months."
          }
      }
 }
```

As indicated in the JSON code above, multiple exceptions can be returned and the exceptions have the following elements:

- **code:** a numeric exception number that identifies the exception. See table F.1 for values.

- **severity:** indicates the nature of the exception:

  - Fatal: The transaction can't be completed. The problem is with the service and may be temporary, so a retry could be successful. No report is returned. Example: "Service busy"

  - Error: The transaction can't be completed. The problem is with the request; a retry will not be successful unless the request or other configuration details change. No report is returned. Example: "Requestor not authorized"

  - Warning: The transaction can be completed, but response may vary from the request. A report is returned. Examples: "Usage Not Ready for Requested Data; Partial Data Returned"

  - Info: An informative message. The report is returned as requested. Examples could be a note about service maintenance at a future date.

  - Debug: Reserved for use by developers as a means of providing additional data about the request or response to the calling application.

- **message:** textual description of the exception. For exception codes > 999 the message must exactly match column 1 in table F.1.

- **data:** additional optional data that further describes the error. Example: For "Partial Data Returned" exception, the "data" could state "You requested 2017-01-01 to 2016-12-31; however, only 2017-01-01 to 2017-06-30 were available."

- **helpurl:** an optional variable that includes the URI to a help message that explains the exception in more detail.

Table F.1 provides a list of possible exceptions that may occur for COUNTER_SUSHI reports.

Exception (message)	Severity	Exception Number (code)	Invocation Conditions
Info or Debug	Info Debug	0	Any. These messages will never be standardized and service providers can design them as they see fit.
Warnings	Warning	1-999	Any. This range is reserved for the use of service providers to supply their own custom warnings.
Service Not Available	Fatal	1000	Service is executing a request, but due to internal errors cannot complete the request. Service must return "ReportResponse" and no payload.

Service Busy	Fatal	1010	Service is too busy to execute the incoming request. Service must return "ReportResponse" with this exception and no payload. Client should retry the request after some reasonable time.
Client Has Made Too Many Requests	Fatal	1020	If the server sets a limit on the number of requests a client can make within a given timeframe, the server will return this error when the client exceeds that limit. The server would provide an explanation of the limit in the message of the error (e.g. "Client has made too many requests. This server allows only 5 requests per day per RequestorID and CustomerID.").
Insufficient Information to Process Request	Fatal	1030	There is insufficient data in the request to begin processing (e.g. missing Requestor ID, Report is missing, no Customer ID, etc.).
Requestor Not Authorized to Access Service	Error	2000	If Requestor ID is not recognized or not authorized by the service.
Requestor is Not Authorized to Access Usage for Institution	Error	2010	If Requestor has not been authorized to harvest usage for the institution identified by the Customer ID, or if the Customer ID is not recognized.
APIKey Invalid	Error	2020	The service being called requires a valid APIKey to access usage data and the key provided was not valid or not authorized for the data being requested.
Report Not Supported	Error	3000	The requested report name, version, or other means of identifying a report that the service can process is not matched against the supported reports.
Report Version Not Supported	Error	3010	Requested version of the data is not supported by the service.
Invalid Date Arguments	Error	3020	Any format or logic errors involving date computations (e.g. end date cannot be less than begin date).
No Usage Available for Requested Dates	Error	3030	Service did not find any data for the date range specified.
Usage Not Ready for Requested Dates	Error, Warning	3031	Service has not yet processed the usage for one or more of the requested months, if some months are available that data should be returned. The exception should include the months not processed in the additional data element.
Partial Data Returned	Warning	3040	Request could not be fulfilled in its entirety. Data that was available was returned.

Parameter Not Recognized in this Context	Warning	3050	Request contained one or more parameters that are not recognized by the server in the context of the report being serviced. The server should list the name of the unsupported filter in the message element of the exception.

Note: The server is expected to ignore unsupported parameters and continue to process the request, returning data that is available without the parameter being applied. |
| Invalid ReportFilter Value | Warning, Error | 3060 | Request contained one or more filter values in the ReportDefinition that are not supported by the server. The server should list the name of unsupported filter values in the message element of the exception.

Note: The server is expected to ignore unsupported filters and continue to process the request, returning data that is available without the filter being applied. |
| Incongruous ReportFilter Value | Warning, Error | 3061 | A filter element includes multiple values in a pipe-delimited list; however, the supplied values are not all of the same scope (e.g. The ItemIdentifier filter includes article level DOIs and journal level DOIs or ISSNs). |
| Invalid ReportAttribute Value | Warning, Error | 3062 | Request contained one or more ReportAttribute values in the ReportDefinition that are not supported by the server. The server should list the name of unsupported report attribute values in the message element of the exception.

Note: The server is expected to ignore unsupported report attributes and continue to process the request, returning data that is available without the report attribute being applied. |
| Required ReportFilter Missing | Warning, Error | 3070 | A required filter was not included in the request. Which filters are required will depend on the report and the service being called. For example, if the service requires that the request define the platform name and no platform filter is included, an exception would be returned. In general, the omission of a required filter would be viewed as an error; however, if the service is able to process the request using a default value then a warning can be returned. The message element of the exception should name the missing filter. |
| Required ReportAttribute Missing | Warning, Error | 3071 | A required report attribute was not included in the request. For example, if the service requires that the request define the platform name and no platform filter is included, an exception would be returned. In general, the omission of a required filter would be viewed as an error; however, if the service is able to process the request using a default value, then a warning can be returned. The message element of the exception should name the missing filter. |

Limit Requested Greater than Maximum Server Limit	Warning	3080	The requested value for limit (number of items to return) exceeds the server limit. The server is expected to return data in the response (up to the limit). The message element of the exception should indicate the server limit.

Note 1: An error does not interrupt completion of the transaction (in the sense of a programmatic failure), although it may not return the expected report for the reason that is identified. A fatal exception does not complete the transaction; the problem may be temporary and a retry could be successful.

Note 2: Optional response: Service may respond with the additional exception of info level and include additional information in the message. For example, if the client is requesting data for a date range where the begin date is before what the service offers, the service might include a HelpURL that can provide more information about supported dates.

Note 3: If multiple exceptions are discovered, each exception should be returned in its own element.

Note 4: Clarifying details about an exception (e.g. the filter that was missing or deemed invalid should be added to the data element or message element of the exception so that the caller knows what to correct).

Note 5: If the caller gets the baseURL, the version, or the method wrong, the expectation is that they will receive an HTTP 404 error since the specified path is not valid.

Table F.1: SUSHI Exceptions

APPENDIX G

LIST OF FEDERATED SEARCH PRODUCTS

The following are lists of known (to COUNTER) federated search products and user-agent values that may be used to identify federated search activity for reporting as "Searches_Federated" in database reports.

NOTE: These lists are for reference purposes only and may not represent all current federated search products (please contact COUNTER with updates).

Table H.1: Federated Search Products

Federated Search Product	Vendor
360 Search	ProQuest
EBSCOhost Integrated Search	EBSCO Information Services
Enterprise (Federated Search)	SirsiDynx
EOS.Web	EOS (SirsiDynx)
MetaLib	ProQuest (Ex LIbris)
SEARCHit	Auto-Graphics

Table H.2: Federated Search Agent "User Agent" values

Federated Search User Agent
AGENTPORT-SCOCIT
AGENTPORT-SDICIT
AHMKEYS-SCOCIT
AHMKEYS-SCOFUL
ARCHIMINC-SCOCIT
ARCHIMINC-SDICIT
CITAVI-SCOCIT
CITAVI-SDICIT
COSMADRALI-SCOCIT
COSMADRALI-SDICIT
DEEPEX-SCOCIT

DEEPEX-SDIABS

DEEPEX-SDICIT

EDINGET-SCOCIT

EDINGET-SDICIT

ENCOMP-SCOCIT

ENCOMP-SDIABS

ENCOMP-SDICIT

GROGRO-SDICIT

HENKINTRA-SCOCIT

INERAEX-SCOCIT

INTELLIFED-SCOCIT

INTELLIFED-SDICIT

MEKPAPERS-SCOCIT

MEKPAPERS-SDICIT

METALIB-SCOCIT

METALIB-SDICIT

MUSESEARCH-SCOCIT

MUSESEARCH-SDICIT

NJIT-SCOCIT

NRLNAVY-SCOCIT

OCLCPICAZ2-SCOCIT

OCLCPICAZ2-SDICIT

OOIPSDWID-SDICIT

POTIRORDY-SCOCIT

POTIRORDY-SDICIT

QES-SCOCIT

QES-SDICIT

QINETIQ-SCOCIT

RIGHTS-SDIABS

RITENSE-SCOCIT

SERSOL-SCOCIT

SERSOL-SDICIT

SYSONEMCKIN-SCOFUL

SYSONEMCKIN-SDIABS

TDNETDF-SCOCIT

TDNETDF-SDICIT

TDNSRCHR-SCOCIT

TDNSRCHR-SDICIT

UAG-SCOCIT

UMIARERES-SCOCIT

UWASOCR-SCOCIT

UWASOCR-SCOFUL

VSPACES-SCOCIT

VSPACES-SDICIT

WEBFEAT-SCOCIT

WEBFEAT-SDICIT

APPENDIX H

SAMPLE COUNTER MASTER REPORTS AND VIEWS

The reports and views in the following table are organized by reporting level (shaded areas) with platforms first, followed by databases, titles, and items. Within the reporting-level, the Standard Usage View appears first followed by the Master Report. Click the highlighted view link to see the corresponding report/view.

Table I.1: Sample COUNTER Reports and Views

Report/View Name	Short Description	Report/ View ID (for SUSHI)	Tabular Sample
Platform Usage	Usage by month and platform	PR_P1	view
Platform Master Report	Activity by month and platform	PR	view
Database Search and Item Usage	Usage by month and database/collection	DR_D1	view
Database Access Denied	"Access Denied" by month and database/collection	DR_D2	view
Database Master Report	Activity by month and database/collection	DR	view
Book Requests (excluding "OA_Gold")	Usage by month and book	TR_B1	view
Book Access Denied	Access-denied by month and book	TR_B2	view
Book Usage by "Access Type"	Reports on book usage showing all applicable metric types broken down by access type	TR_B3	view
Journal Requests (excluding "OA_Gold")	Reports on usage of non-Gold open access journal content as "Total_Item_Requests" and "Unique_Item_Requests". The "Unique_Item_Requests" provides comparable usage across journal platform by reducing the inflationary effect that occurs when and HTML full text automatically displays and the user then access the PDF version. The "Total_Item_Requests" shows overall activity.	TR_J1	view

Journal Access Denied	"Access Denied" by month and journal	TR_J2	view
Journal Usage by "Access Type"	Reports on usage of journal content for all metric types broken down by access type	JR_J3	view
Journal Request by YOP (excluding "OA_Gold")	Breaks down the usage of non-Gold open access journal content by "Year of Publication" (YOP) providing counts for the metric types "Total_Item_Requests" and "Unique_Item_Requests". Provides the details necessary to analyze usage of content in backfiles or covered by perpetual access agreement. Note: COUNTER reports do not provide access model or perpetual access rights details.	JR_J4	view
Title Master Report	Activity by month and title	TR	view
Journal Article Requests	Reports on journal article requests at the article level	IR_A1	view
Multimedia Item Requests	Reports on multimedia requests at the item level	IR_M1	view
Item Master Report	Activity by month and item	IR	view

APPENDIX I

LIST OF INTERNET ROBOTS, CRAWLERS, AND SPIDERS

The growing use of internet robots, crawlers, and spiders has the potential to artificially inflate usage statistics. Only genuine, user-driven usage should be reported in COUNTER usage reports. Usage of full text articles that is initiated by automatic or semi-automatic bulk download tools such as Quosa or Pubget should only be recorded when the user has clicked on the downloaded full-text article in order to open it.

Activity generated by internet robots, crawlers, and spiders must be excluded from all COUNTER usage reports.

This list of internet robots, crawlers, and spiders was published in April 2016 and updated July 2016. Please note it is rationalised, removing some previously redundant entries (e.g. the text 'bot'—msnbot, awbot, bbot, turnitinbot, etc.—is now collapsed down to a single entry 'bot').

The list is available at: https://github.com/atmire/COUNTER-Robots Each line in the file contains a regular expression (regex), which is a type of text string that describes a search pattern. When using the exclusion list, **all the regexes should be matched case-insensitively.**

For further information on regular expression matching, see: http://www.regular-expressions.info/quickstart.html.

Please let us know of any user agents that should be included in this list or to suggest other amendments.