



Australian Government
Australian Research Council

ERA-SEER 2018
BUSINESS RULES AND
VERIFICATION

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Introduction

The *ERA–SEER 2018 Business Rules and Verification* provides information to institutions about the system checks that the Excellence in Research for Australia (ERA) IT platform, the System to Evaluate the Excellence of Research (SEER), will perform against institution submission data. Institutions should read the *ERA–SEER 2018 Business Rules and Verification* in conjunction with the *ERA 2018 Submission Guidelines* and the *ERA–SEER 2018 Technical Specifications*. This document targets technical staff involved in the preparation of the XML submission file, and will help institutions ensure their submission data conforms to the ERA 2018 data requirements.

This document provides an indicative list of business rules. Institutions should note that this list may alter prior to the beginning of ERA 2018 submission. If changes to the ERA 2018 business rules do occur, the ARC will notify institutions.

Submission

During submission, SEER validates, verifies and checks ERA submission files against the business rules. This document provides a list of business rules, each of which has an identification number (e.g. BR001). Each business rule has an ‘expression’ and a ‘message’. The ‘expression’ describes the data requirements in line with the *ERA 2018 Submission Guidelines* and *ERA–SEER 2018 Technical Specifications*. The ‘message’ is what SEER will show—as either an error message or a warning message—to inform the institution of an actual or potential data issue.

Where a business rule for ERA 2018 is substantially the same as the rule for ERA 2015, the business rule number remains unchanged. Business rules from previous ERA rounds that are obsolete for ERA 2018 have been deleted and the corresponding business rule number is no longer used.

The [business rules examples](#) section provides XML snippets, where possible, to provide a specific example of how the data should or should not be provided according to the business rule.

The [peer review calculation](#) section provides information to institutions about how to calculate the 30% of research outputs to be nominated for ERA peer review.

The [duplicate resolution](#) section outlines the criteria the ARC will use for duplication checking during the submission phase based on the mandatory information submitted by institutions for each research output type.

Data integrity checking

During data integrity checking, the ARC performs further checks to ensure the integrity of the submission data. This document includes a list of checks that the ARC will undertake during this phase. The checks are in addition to the system checks listed in the business rules and the submission de-duplication process.

List of ERA–SEER 2018 Business Rules

This section provides an indicative list of ERA business rules, against which SEER will verify an institution's ERA 2018 submission. Institutions should note that the ARC may alter this list prior to the beginning of ERA 2018 submission. If changes to the ERA 2018 business rules do occur, the ARC will notify institutions.

ID	Expression	Error/Warning Message	Severity
BR001	The traditional research output must have either the Year Published or Year Available within the research output reference period (2011-2016).	Both the Year Published and the Year Available of this traditional research output are outside the reference period.	Error
BR007	For books marked as 'revisions', edition information must be provided.	Edition information must be provided for all books marked as 'revisions'.	Error
BR011	If the language code indicates that the native script is in a language other than English, the Roman script for the title may be provided.	A Roman script of the research output title may be provided if the language code is in a language other than English.	Warning
BR012	For research outputs identified as 'Culturally sensitive', a sensitive handling note must be provided.	A sensitive handling note must be provided for all research outputs marked as 'Culturally sensitive'.	Error
BR018	For each researcher, the sum of apportionments to FoRs must be 100%.	The total FoR percentage apportionment for each researcher must equal 100%.	Error
BR023	If the research output is nominated for ERA peer review, an electronic location must be provided for the research output.	All research outputs nominated for ERA peer review must provide a link to its location in a repository.	Error
BR024	If the unique identifier of an indexed journal article is provided, it must match the unique identifier from the citation provider.	The indexed journal article unique identifier does not match the unique identifier in the bibliographic dataset from the citation provider.	Error
BR025	The Reference Year for research income (Category 1) must be one of the following values: 2014, 2015, 2016.	The reference year for research income (Category 1) is not valid.	Error

ID	Expression	Error/Warning Message	Severity
BR026	The Reference Year for research income (Categories 2, 3 or 4) or research commercialisation income must be one of the following values: 2014, 2015, 2016.	The reference year for research income (Categories 2, 3 or 4) or research commercialisation income is not valid.	Error
BR027	The sum of apportionments for each year of research income (Category 2, Category 3 (including subcategories) and Category 4) must be between 95% and 105% inclusively.	The total FoR percentage apportionment for each year of research income (Categories 2, 3 and 4) must be between 95% and 105%.	Error
BR030	The Reference Year for the applied measure must be one of the following values: 2014, 2015, 2016.	The reference year for the applied measure is not valid.	Error
BR031	Each researcher provided should have a unique first name and last name combination.	More than one researcher was submitted with the same first and last name.	Warning
BR042	Where a researcher has the Employment Status of '1' (employed), a total FTE value must be provided.	Where a researcher has the Employment Status of '1' (employed), a total FTE value must be provided.	Error
BR047	A data field must not contain the following items: 'N/A', 'NA', 'Not Available'	A data field exists that does not have meaningful content.	Error
BR048	The sum of apportionments from the same research output must be 100%.	The total FoR percentage apportionment for each research output must equal 100%.	Error
BR049	The apportionment for each FoR assigned to a research output must be between 20% and 100% inclusive.	The FoR percentage apportionment for each FoR assigned to a research output must be between 20% and 100% inclusive.	Error
BR050	The language code assigned to a research output must match a language code from the ABS language reference list.	The language code assigned to a research output must match the language code from the language reference table.	Error
BR054	The ERA Journal ID must match the ERA Journal ID provided in the <i>ERA 2018 Submission Journal List</i> .	The ERA Journal ID does not correspond with the one provided in the <i>Submission Journal List</i> .	Error

ID	Expression	Error/Warning Message	Severity
BR059	If the FoR code assigned to the journal article is not a subset of the two-digit FoR code for the relevant Journal (as per <i>Submission Journal List</i>), the apportioned value of the FoR must be equal to or greater than 66%.	The FoR code assigned to the journal article must be a subset of the two-digit FoR code for the relevant Journal (as per <i>Submission Journal List</i>) or have an apportioned value equal to or greater than 66%.	Error
BR062	The non-traditional research output must have either the Year Published or Year Presented within the research output reference period (2011-2016).	Both the Year Published and the Year Presented of this non-traditional research output are outside the reference period.	Error
BR066	If a researcher has an Employment Status of '2' (employed-casual) or '3' (other), then they must have at least one research output submitted. NOTE— for researchers with the Employment Status '2' and '3', institutions may only submit the research outputs which have a publication association between the researcher and the institution.	At least one research output must be provided for a researcher who has the Employment Status of '2' or '3'. NOTE— for these types of employees, only those research outputs that have a publication association between the researcher and the institution may be submitted.	Error
BR067	The sum of apportionments from the same applied measure must be 100%.	The total FoR percentage apportionment for each applied measure must equal 100%.	Error
BR068	Each patent number within a submission must be unique.	The patent number must be unique within a submission.	Error
BR069	Each registered design ID within a submission must be unique.	The registered ID of a registered design must be unique within a submission.	Error
BR070	Each Plant Breeder's Right application number within a submission must be unique.	The application number of the Plant Breeder's Right must be unique within a submission.	Error
BR071	The country of registration code assigned to the Plant Breeder's Right must match the ABS country codes.	The country of registration assigned to the Plant Breeder's Right must match the ABS country codes.	Error
BR072	The sum of apportionments from the same year for research commercialisation income must be between 95% and 105% inclusively.	The total FoR percentage apportionment for each year of research commercialisation income must be between 95% and 105%.	Error

ID	Expression	Error/Warning Message	Severity
BR073	The sum of apportionments from the same year for each grant income (Category 1) must be between 95% and 105% inclusively.	The total FoR percentage apportionment for each year within one grant (Category 1) must be between 95% and 105%.	Error
BR086	The FoR codes listed as nominated PR Disciplines must accord with the ERA peer review indicator set in the <i>ERA 2018 Discipline Matrix</i> .	One or more of the FoR codes listed as being a Nominated Peer Review Discipline do not accord with the ERA peer review indicator set in the <i>ERA 2018 Discipline Matrix</i> .	Error
BR090	For research commercialisation income, the total amount submitted for each year must not be less than or equal to zero.	The total research commercialisation income for each year must be greater than zero.	Error
BR091	For income (Category 1), the total amount submitted for each year of each grant must not be less than or equal to zero.	The total income (Category 1) submitted for each year of each grant must be greater than zero.	Error
BR092	For income (Category 2, Category 3 (including subcategories) and Category 4), the total amount submitted for each year must not be less than or equal to zero.	The total income (Categories 2, 3 and 4) submitted per year must be greater than zero.	Error
BR094	All the FoR codes assigned to the non-traditional research output should accord with the non-traditional research output indicator set of the FoR within the <i>ERA 2018 Discipline Matrix</i> .	One or more of the FoR codes assigned to the non-traditional research output does not accord with the non-traditional research-output indicator set of the FoR within the <i>ERA 2018 Discipline Matrix</i> .	Error
BR095	All the FoR codes assigned to the applied measure must accord with the applied measure indicator set of the FoR within the <i>ERA 2018 Discipline Matrix</i> .	One or more of the FoR codes assigned to the applied measure does not accord with the applied measure indicator set of the FoR within the <i>ERA 2018 Discipline Matrix</i> .	Error
BR097	The FoR code submitted must match a valid FoR code listed in the ANZSRC.	One or more FoR codes submitted is not valid.	Error
BR099	The research output can only be nominated for ERA peer review in one (or more) of the FoR codes to which it is assigned.	The research output has been nominated for ERA peer review in an FoR code to which it is not assigned.	Error

ID	Expression	Error/Warning Message	Severity
BR104	The orderInOutput for authors connected to this research output must be in sequence starting from 1.	The orderInOutput for authors connected to this research output must be in sequence starting from 1.	Error
BR106	The ACGR code must be valid according to the codes listed in the ACGR code table for each reference year of the grant.	The ACGR code is not valid for each reference year of the grant.	Error
BR109	The Unit of Evaluation with peer review component must have 30% of its apportioned research outputs for each research output type nominated for peer review at the four-digit FoR level.	The Unit of Evaluation does not have 30% of its research outputs for each research output type nominated for ERA peer review at the four-digit FoR level.	Error
BR112	Staff employed at less than 0.4 FTE must be included in the staff data. Their publications must be included if they are published within the reference period <i>and</i> at least one publication has a byline linking the staff member to the submitting institution, or a demonstration of a publication association where the byline is not available on the publication.	Staff employed at less than 0.4 FTE must be included in the staff data. Their publications must be included if they are published within the reference period <i>and</i> at least one publication has a byline linking the staff member to the submitting institution, or a demonstration of a publication association where the byline is not available on the publication (as per the <i>Submission Guidelines</i>).	Warning
BR113	If the FoR code assigned to a journal article does not match the FoR code(s) specified in the <i>ERA 2018 Submission Journal List</i> then the apportionment value of that FoR code must be at least 66%.	The FoR code assigned to the journal article must correspond to the FoR code(s) specified in the <i>Submission Journal List</i> or have an apportioned value equal to or greater than 66%.	Error
BR114	The staff member who has employment status as '1' (employed) and whose function is listed as 'Other Function' must have his/her staff reference associated with at least one research output.	A staff member who is employed with 'Other Function' must be associated with at least one research output.	Error
BR115	Where the institution has included a sensitive handling note the culturally sensitive indicator must also be provided.	A culturally sensitive indicator must be associated to a research output that includes a sensitive handling note.	Error

ID	Expression	Error/Warning Message	Severity
BR117	The journal article submitted must be an eligible journal article as listed in the <i>ERA 2018 Submission Guidelines</i> and as per the citation provider's publication definition.	The citation's provider data indicates that the journal article is not eligible.	Error
BR118	If a portfolio is nominated for ERA peer review then an electronic location must be provided for each of the research items.	Each of the research items within the portfolio nominated for ERA peer review must provide a link indicating its location in a repository.	Error
BR122	Each research item within a portfolio must have either the Year Published or Year Presented within the research output reference period (2011-2016).	A research item within the portfolio has both the Year Published and the Year Presented outside the reference period.	Error
BR124	If an applied measure is associated to an individual (Type '1') then a staff reference number must be provided.	A staff reference number must be associated to each applied measure with an owner type of '1' (i.e. an individual).	Error
BR125	For book and book chapter research output types, the ERA Publisher ID in the submission must match the ERA Publisher ID provided in the <i>ERA 2018 Submission Publisher List</i> .	The ERA Publisher ID does not correspond with the one provided in the <i>ERA 2018 Submission Publisher List</i> .	Error
BR126	The ERA Conference ID in the submission must match the ERA Conference ID provided in the <i>ERA 2018 Submission Conference List</i> .	The ERA Conference ID does not correspond with the one provided in the <i>ERA 2018 Submission Conference List</i> .	Error
BR132	The reassignment exception must not be used to move more than 40% of the apportioned journal articles into a single UoE.	The FoR code assigned to the journal article must correspond to the FoR code(s) specified in the <i>ERA 2018 Submission Journal List</i> for at least 60% of the outputs in a UoE.	Warning
BR133	The total research income for Category 1, 2, 3 and 4 reported per year must be within a plus or minus 10% range in comparison to the HERDC data collection.	The total research income reported per year is not within plus or minus 10% of the HERDC data collection.	Warning

ID	Expression	Error/Warning Message	Severity
BR134	The published name of the 'staff creator' must appear on the research output 'creator' list.	The published name of the 'staff creator' must appear on the research output 'creator' list.	Warning
BR137	If the ERA Publisher ID in submission matches the ERA Publisher ID of 'Other', the publisher information must be provided.	If the ERA Publisher ID in submission matches the ERA Publisher ID of 'Other', then the publisher information must be provided.	Error
BR138	If the ERA Conference ID in submission matches the ERA Conference ID of 'Other', the conference series name must be provided.	If the ERA Conference ID in submission matches the ERA Conference ID of 'Other', then the conference series name must be provided.	Error
BR140	The institution has provided the name of a publisher that is already on the publisher list.	PublisherOther must not be the same as a publisher that is already on the publisher list.	Error
BR141	The institution has provided the name of a conference that is already on the conference list.	ConferenceOther must not be the same as a conference that is already on the conference list.	Error
BR142	The Grant ID issued by the funding body must be unique to the program	The Grant ID is not unique to the program from the same funding body	Warning
BR143	The institution has provided different funding organisations for the same grant.	The ACGR schemes provided for the grant are from different organisations.	Warning
BR144	The institution has provided the same patentFamily name for different patents.	The patentFamily name provided is not unique.	Error
BR145	The institution has provided the same plantBreedersRightsFamily name for different Plant Breeders Rights	The PlantBreedersRightsFamily name provided is not unique.	Error

ERA Submission—Business Rules Examples

The following section provides examples and XML snippets of *most* of the ERA Business Rules, demonstrating the error and providing the reason for it. Where it is not possible to provide an appropriate example, a brief explanation of the business rule is given. Please note that the following examples are for illustrative purposes only and that not all business rules are included below.

BR001—Traditional Research Output Reference Period

ID	Expression	Severity
BR001	The traditional research output must have either the Year Published or Year Available within the research output reference period (2011-2016).	Error

EXAMPLE ONE—*The following example shows a research output with both Year Published and Year Available outside the research output reference period (2011-2016). This will generate an error.*

```
<seer:journalArticle identifier="XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
journalVolume="944" journalIssue="2" yearAvailable="2017" yearPublished="2017"
placeOfPublication="New York" extent="pages 553-541"
availableInOpenAccessRepository="true">
  <seer:title nativeScript="Beyond the Brink: A New Quantum Perspective"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
repositoryLink="https://repos1.other.edu.au/article/00207608-106-2-7" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Amaretti, G"/>
    <seer:creator orderInOutput="2" publishedName="Wilcott, N. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0001"/>
  </seer:staffCreators>
  <seer:journalOutlet eraJournalId="944"/>
</seer:journalArticle>
```

EXAMPLE TWO—*The following example shows a research output with Year Published outside the research output reference period and no Year Available provided. This will generate an error.*

```

<seer:book edition="2" eraPublisherId="2112" placeOfPublication="Toronto, Canada "
yearPublished="2017" isbn="979-8837652893" extent="211 pages"
availableInOpenAccessRepository="true">
  <seer:title nativeScript="Mapping the World Economy"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1401" apportionment="80"/>
    <seer:discipline forGroupCode="1499" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="McAllister, S. J."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0005"/>
  </seer:staffCreators>
</seer:book>

```

EXAMPLE THREE— *The following example shows a research output with Year Published outside the reference period (2011-2016) and Year Available within the research output reference period. This will not generate an error.*

```

<seer:journalArticle identifier="XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
journalVolume="944" journalIssue="2" yearAvailable="2016" yearPublished="2017"
placeOfPublication="New York" extent="pages 553-541"
availableInOpenAccessRepository="true">
  <seer:title nativeScript="Beyond the Brink: A New Quantum Perspective"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
repositoryLink="https://repos1.other.edu.au/article/00207608-106-2-7" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Amaretti, G"/>
    <seer:creator orderInOutput="2" publishedName="Wilcott, N. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0001"/>
  </seer:staffCreators>
  <seer:journalOutlet eraJournalId="944"/>
</seer:journalArticle>

```

BR007—Edition Information for Revised Books

ID	Expression	Severity
BR007	For books marked as 'revisions', edition information must be provided.	Error

EXAMPLE ONE—The following example shows that the book has been revised but no edition information has been provided. This will generate an **error**.

```
<seer:book isRevision="true" eraPublisherId="1002" placeOfPublication="Canberra, Australia"
yearPublished="2011" isbn="978-8837652893" extent="146 pages"
availableInOpenAccessRepository="true">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
</seer:book>
```

EXAMPLE TWO—The same snippet is provided with the correct information: that is, the book has been revised and edition information has been provided. This will not generate an error.

```
<seer:book isRevision="true" edition="7" eraPublisherId="1002" placeOfPublication="Canberra,
Australia" yearPublished="2011" isbn="978-8837652893" extent="146 pages"
availableInOpenAccessRepository="true">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
```



```
<seer:discipline forGroupCode="1905" apportionment="30"/>
<seer:discipline forGroupCode="1302" apportionment="20"/>
</seer:disciplineAssignment>
<seer:electronicLocations>
  <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
</seer:electronicLocations>
<seer:creators>
  <seer:creator orderInOutput="1" publishedName="Efland, A."/>
  <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
  <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
</seer:creators>
<seer:staffCreators>
  <seer:staffCreator staffReference="ERA0003"/>
</seer:staffCreators>
</seer:book>
```

BR011—Native Script for Research Output in a Language Other Than English

ID	Expression	Severity
BR011	If the language code indicates that the native script is in a language other than English, the Roman script for the title may be provided.	Warning

EXAMPLE ONE—*The following example shows a research output published in a non-English language (2201 Greek) without the title in Roman script also being provided. This will generate a warning.*

```
<seer:recordedOrRenderedWork category="1" placeOfPublication="Melbourne"
yearPublished="2011" extent="1 minute 36 seconds" publisher="ShotInTheDark Productions"
media="Included are: high-definition short film; publication material; and reviews in local and
national outlets (x5)." availableInOpenAccessRepository="true">
  <seer:title nativeScript="Το Φένσι " translated="The Fencie (The Fence)" language="2201"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1902" apportionment="40"/>
    <seer:discipline forGroupCode="1604" apportionment="30"/>
    <seer:discipline forGroupCode="2003" apportionment="30"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Poulos, P."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0011"/>
  </seer:staffCreators>
</seer:recordedOrRenderedWork>
```

EXAMPLE TWO—The same snippet is provided with both native script and Roman script. This will not generate a **warning**.

```
<seer:recordedOrRenderedWork category="1" placeOfPublication="Melbourne" yearPublished="2011"
extent="1 minute 36 seconds" publisher="ShotInTheDark Productions" media="Included are: high-definition
short film; publication material; and reviews in local and national outlets (x5)."
availableInOpenAccessRepository="true">
```

```
  <seer:title nativeScript="Το Φένσι " romanScript="To Fensi" translated="The Fencie (The
Fence)" language="2201"/>
```

```
  <seer:disciplineAssignment>
```

```
    <seer:discipline forGroupCode="1902" apportionment="40"/>
```

```
    <seer:discipline forGroupCode="1604" apportionment="30"/>
```

```
    <seer:discipline forGroupCode="2003" apportionment="30"/>
```

```
  </seer:disciplineAssignment>
```

```
  <seer:creators>
```

```
    <seer:creator orderInOutput="1" publishedName="Poulos, P."/>
```

```
  </seer:creators>
```

```
  <seer:staffCreators>
```

```
    <seer:staffCreator staffReference="ERA0011"/>
```

```
  </seer:staffCreators>
```

```
</seer:recordedOrRenderedWork>
```

BR012 & BR115—Sensitive Research Outputs

ID	Expression	Severity
BR012	For research outputs identified as ‘Culturally sensitive’, a sensitive handling note must be provided.	Error
BR115	Where the institution has included a sensitive handling note the cultural sensitive indicator must also be provided.	Error

EXAMPLE ONE—*The following example shows the same research output as above with the sensitivity type provided but no sensitive handling note. This will generate an **error**.*

```
<seer:conferencePublication placeOfPublication="Sydney" yearPublished="2013"
isCulturallySensitive="True" extent="25 pages" publisher="IEEE Xplore"
availableInOpenAccessRepository="true">
  <seer:title nativeScript="Towards a Data Commons"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0899" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Humphries, R"/>
    <seer:creator orderInOutput="2" publishedName="Roche, C. P. "/>
    <seer:creator orderInOutput="3" publishedName="Yen, X."/>
    <seer:creator orderInOutput="4" publishedName="Pierce, T. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0010"/>
  </seer:staffCreators>
  <seer:institutionalUnits>
    <seer:institutionalUnit code="SIS" name="School of Information Sciences, University
of Australian Studies, Griffith Avenue, Parkes"/>
  </seer:institutionalUnits>
</seer:conferencePublicationOutlet eraConferenceId="43972" venue="Sydney, Australia ">
  <seer:title nativeScript="Proceedings - 2013 Digital Archives and Digital Humanities
Conference"/>
</seer:conferencePublicationOutlet>
</seer:conferencePublication>
```

EXAMPLE TWO—*The following example shows the same research output as above, with culturally sensitive and sensitive handling note provided. This will not generate an error.*

```
<seer:conferencePublication placeOfPublication="Sydney" yearPublished="2013" extent="25 Pages"
publisher="IEEE Xplore" isCulturallySensitive="True" sensitiveNote="the research output contains
material that may be offensive to an indigenous tribe" availableInOpenAccessRepository="true">
  <seer:title nativeScript="Towards a Data Commons"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0899" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Humphries, R"/>
    <seer:creator orderInOutput="2" publishedName="Roche, C. P. "/>
```

```

        <seer:creator orderInOutput="3" publishedName="Yen, X."/>
        <seer:creator orderInOutput="4" publishedName="Pierce, T. L."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0010"/>
    </seer:staffCreators>
    <seer:institutionalUnits>
        <seer:institutionalUnit code="SIS" name="School of Information Sciences, University
of Australian Studies, Griffith Avenue, Parkes"/>
    </seer:institutionalUnits>
<seer:conferencePublicationOutlet eraConferenceId="43972" venue="Sydney, Australia ">
    <seer:title nativeScript="Proceedings - 2013 Digital Archives and Digital Humanities
Conference"/>
    </seer:conferencePublicationOutlet>
</seer:conferencePublication>

```

EXAMPLE THREE—*The following example shows the same research output as above, with sensitive handling note provided, yet without indicating that the research output is culturally sensitive. This will generate an **error**.*

```

<seer:conferencePublication placeOfPublication="Sydney" yearPublished="2013" extent="25 Pages"
publisher="IEEE Xplore" sensitiveNote="the research output contains material that may be offensive
to an indigenous tribe" availableInOpenAccessRepository="true">
    <seer:title nativeScript="Towards a Data Commons"/>
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="0899" apportionment="100"/>
    </seer:disciplineAssignment>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Humphries, R"/>
        <seer:creator orderInOutput="2" publishedName="Roche, C. P."/>
        <seer:creator orderInOutput="3" publishedName="Yen, X."/>
        <seer:creator orderInOutput="4" publishedName="Pierce, T. L."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0010"/>
    </seer:staffCreators>
    <seer:institutionalUnits>
        <seer:institutionalUnit code="SIS" name="School of Information Sciences, University
of Australian Studies, Griffith Avenue, Parkes"/>
    </seer:institutionalUnits>
<seer:conferencePublicationOutlet eraConferenceId="43972" venue="Sydney, Australia ">

```

```

        <seer:title nativeScript="Proceedings - 2013 Digital Archives and Digital Humanities
Conference"/>
    </seer:conferencePublicationOutlet>
</seer:conferencePublication>

```

BR018—Researcher Apportionment

ID	Expression	Severity
BR018	For each researcher, the sum of apportionments to FoRs must be 100%.	Error

EXAMPLE ONE—*The following example shows a researcher with a total FoR apportionment of less than 100%. This will generate an **error**.*

```

<seer:researcher staffReference="ERA0001" gender="Male" honorific="Associate Professor"
firstName="Nathan" middleName="Liam" lastName="Wilcott" employmentLevel="013"
employmentStatus="1" researcherFunction="B" totalFte="0.5">
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="0206" appportionment="40"/>
        <seer:discipline forGroupCode="0306" appportionment="40"/>
    </seer:disciplineAssignment>
    <seer:otherNames>
        <seer:otherName publishedName="Wilcott, N. L."/>
        <seer:otherName publishedName="Wilcott, Nathan"/>
        <seer:otherName publishedName="Wilcott, Nathan L."/>
        <seer:otherName publishedName="N. L. Wilcott"/>
    </seer:otherNames>
</seer:researcher>

```

EXAMPLE TWO—*The following example shows a researcher with a total FoR apportionment of more than 100%. This will generate an **error**.*

```
<seer:researcher staffReference="ERA0003" gender="Female" honorific="Professor"
firstName="Susan" middleName="Beatrice" lastName="LaMont" employmentLevel="000"
employmentStatus="3" researcherFunction="A" totalFte="1.0">
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1905" apportionment="10"/>
    <seer:discipline forGroupCode="1903" apportionment="15"/>
    <seer:discipline forGroupCode="1902" apportionment="90"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="LaMont, S"/>
    <seer:otherName publishedName="LaMont, S. B."/>
  </seer:otherNames>
</seer:researcher>
```

EXAMPLE THREE—*The following example shows a researcher with a total FoR apportionment of 100%. This will not generate an error.*

```
<seer:researcher staffReference="ERA0003" gender="Female" honorific="Professor"
firstName="Susan" middleName="Beatrice" lastName="LaMont" employmentLevel="000"
employmentStatus="3" researcherFunction="A" totalFte="1.0">
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1905" apportionment="10"/>
    <seer:discipline forGroupCode="1903" apportionment="15"/>
    <seer:discipline forGroupCode="1902" apportionment="75"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="LaMont, S"/>
    <seer:otherName publishedName="LaMont, S. B."/>
  </seer:otherNames>
</seer:researcher>
```

BR023—Research Outputs for ERA Peer Review

ID	Expression	Severity
BR023	If the research output is nominated for ERA peer review, an electronic location must be provided for the research output.	Error

EXAMPLE ONE—*The following example shows a research output that has been nominated for peer review but does not provide electronic location to the research output in a repository. This will generate an **error**.*

```
<seer:book availableInOpenAccessRepository="true" edition="1" eraPublisherId="42282"
placeOfPublication="Canberra, Australia" yearPublished="2012" isbn="978-8837652893" extent="146
pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1302"/>
    <seer:nominatedPRDiscipline forGroupCode="1901"/>
  </seer:nominatedPRDisciplines>
</seer:book>
```


EXAMPLE TWO—The following example shows how to identify that a research output is available for peer review and also provide the repository link to the research output in the repository. This will not generate an **error**.

```
<seer:book availableInOpenAccessRepository="true" edition="1" eraPublisherId="2001"
placeOfPublication="Canberra, Australia" yearPublished="2012" isbn="978-8837652893"
extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
repositoryLink="https://repos2.other.edu.au/book/978-0937652893"
/>
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1901"/>
    <seer:nominatedPRDiscipline forGroupCode="1302"/>
  </seer:nominatedPRDisciplines>
</seer:book>
```

BR024—Unique output identifier Matching to Citation Provider

ID	Expression	Severity
BR024	If the unique output identifier of an indexed journal article is provided, it must match the unique output identifier from the citation provider.	Error

This business rule uses the bibliographic information of a journal (unique output identifier) returned from the citation provider and compares it to the submitted indexed journal article. This ensures that the unique output identifier correctly matches the submitted journal article.

EXAMPLE ONE—*The following example shows the identifier tag that will be used for this business rule.*

```

<seer:journalArticle identifier="XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX" journalVolume="74"
journalIssue="2" yearPublished="2015" placeOfPublication="New York" extent="pages 553-541"
availableInOpenAccessRepository="true">
  <seer:title nativeScript="Beyond the Brink: A New Quantum Perspective"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
repositoryLink="https://repos1.other.edu.au/article/00207608-106-2-7" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Amaretti, G"/>
    <seer:creator orderInOutput="2" publishedName="Wilcott, N. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0001"/>
  </seer:staffCreators>
  <seer:journalOutlet eraJournalId="944" />
</seer:journalArticle>

```

EXAMPLE TWO—The following example shows a journal article without identifier, submitted as a non-indexed journal article. In this case, this business rule will not be activated for this research output.

```

<seer:journalArticle journalVolume="74" journalIssue="2" yearPublished="2015"
placeOfPublication="New York" extent="pages 553-541" availableInOpenAccessRepository="true">
  <seer:title nativeScript="Beyond the Brink: A New Quantum Perspective"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
repositoryLink="https://repos1.other.edu.au/article/00207608-106-2-7" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Amaretti, G"/>
    <seer:creator orderInOutput="2" publishedName="Wilcott, N. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0001"/>
  </seer:staffCreators>
  <seer:journalOutlet eraJournalId="944" />
</seer:journalArticle>

```

BR025—Australian Competitive Grant Reference Year

ID	Expression	Severity
BR025	The Reference Year for research income (Category 1) must be one of the following values: 2014, 2015, 2016.	Error

EXAMPLE ONE—The following example shows an Australian competitive grant which is spread over two years, with one of the years reported as outside the research income reference period. This will generate an **error**.

```

<seer:australianCompetitiveGrants>
  <seer:australianCompetitiveGrant grantID="sndxxx"
    percentageOfGrantWithinRefPeriod="33.33">
    <seer:incomeYears>
      <seer:incomeYear acgrCode="FND2013_066" referenceYear="2013"
totalAmountReceived="100000">
        <seer:incomeDisciplineAssignment>
          <seer:discipline apportionment="40" forGroupCode="0201"/>
          <seer:discipline apportionment="20" forGroupCode="0202"/>
          <seer:discipline apportionment="10" forGroupCode="0203"/>
          <seer:discipline apportionment="20" forGroupCode="0204"/>
          <seer:discipline apportionment="10" forGroupCode="2299"/>
        </seer:incomeDisciplineAssignment>
      </seer:incomeYear>
      <seer:incomeYear acgrCode="FND2014_096" referenceYear="2014"
totalAmountReceived="75000">
        <seer:incomeDisciplineAssignment>
          <seer:discipline apportionment="50" forGroupCode="0204"/>
          <seer:discipline apportionment="50" forGroupCode="0205"/>
        </seer:incomeDisciplineAssignment>
      </seer:incomeYear>
    </seer:incomeYears>
  </seer:australianCompetitiveGrant>
</seer:australianCompetitiveGrants>

```

EXAMPLE TWO—The following example shows the same Australian competitive grant, but with all years reported inside the research income reference period. This will not generate an **error**.

```

<seer:australianCompetitiveGrants>
  <seer:australianCompetitiveGrant grantID="LPxxx/2013"
    percentageOfGrantWithinRefPeriod="66.00">
    <seer:incomeYears>
      <seer:incomeYear acgrCode="FND2014_066" referenceYear="2014"
totalAmountReceived="100000">
        <seer:incomeDisciplineAssignment>
          <seer:discipline apportionment="40" forGroupCode="0201"/>
          <seer:discipline apportionment="20" forGroupCode="0202"/>

```

```

        <seer:discipline apportionment="10" forGroupCode="0203"/>
        <seer:discipline apportionment="20" forGroupCode="0204"/>
        <seer:discipline apportionment="10" forGroupCode="2299"/>
    </seer:incomeDisciplineAssignment>
</seer:incomeYear>
<seer:incomeYear acgrCode="FND2015_050" referenceYear="2015"
totalAmountReceived="75000">
    <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="50" forGroupCode="0204"/>
        <seer:discipline apportionment="50" forGroupCode="0205"/>
    </seer:incomeDisciplineAssignment>
</seer:incomeYear>
</seer:incomeYears>
</seer:australianCompetitiveGrant>
</seer:australianCompetitiveGrants>

```

BR026—Research Income Reference Year

ID	Expression	Severity
BR026	The Reference Year for research income (Categories 2, 3 or 4) or research commercialisation income must be one of the following values: 2014, 2015, 2016.	Error

EXAMPLE ONE—The following example shows research income reported outside the reference period. This will generate an **error**.

```

<seer:otherPublicSectorIncome>
    <seer:otherIncomeYears>
        <seer:otherIncomeYear totalAmountReceived="13020" referenceYear="2013">
            <seer:incomeDisciplineAssignment>
                <seer:discipline forGroupCode="0205" apportionment="50"/>
                <seer:discipline forGroupCode="0303" apportionment="50"/>
            </seer:incomeDisciplineAssignment>
        </seer:otherIncomeYear>
        <seer:otherIncomeYear totalAmountReceived="11870" referenceYear="2014">
            <seer:incomeDisciplineAssignment>
                <seer:discipline forGroupCode="0205" apportionment="40"/>
                <seer:discipline forGroupCode="0303" apportionment="60"/>
            </seer:incomeDisciplineAssignment>
        </seer:otherIncomeYear>
    </seer:otherIncomeYears>
</seer:otherPublicSectorIncome>

```

```

</seer:otherIncomeYear>
<seer:otherIncomeYear totalAmountReceived="8840" referenceYear="2015">
  <seer:incomeDisciplineAssignment>
    <seer:discipline forGroupCode="0201" apportionment="60"/>
    <seer:discipline forGroupCode="0303" apportionment="40"/>
  </seer:incomeDisciplineAssignment>
</seer:otherIncomeYear>
</seer:otherIncomeYears>
</seer:otherPublicSectorIncome>

```

EXAMPLE TWO—The following example shows the same research income but with both years inside the reference period. This will not generate an **error**.

```

<seer:otherPublicSectorIncome>
  <seer:otherIncomeYears>
    <seer:otherIncomeYear totalAmountReceived="11870" referenceYear="2014">
      <seer:incomeDisciplineAssignment>
        <seer:discipline forGroupCode="0205" apportionment="40"/>
        <seer:discipline forGroupCode="0303" apportionment="60"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
    <seer:otherIncomeYear totalAmountReceived="8840" referenceYear="2015">
      <seer:incomeDisciplineAssignment>
        <seer:discipline forGroupCode="0201" apportionment="60"/>
        <seer:discipline forGroupCode="0303" apportionment="40"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
  </seer:otherIncomeYears>
</seer:otherPublicSectorIncome>

```

BR027—Research Income Apportionment Total

ID	Expression	Severity
BR027	The sum of apportionments for each year of research income (Category 2, Category 3 (including subcategories) and Category 4) must be between 95% and 105% inclusively.	Error

EXAMPLE ONE—The following example shows the total apportionment for Category 2 research income in 2014 is 107%. This will generate an **error**.

```

<seer:otherPublicSectorIncome>
  <seer:otherIncomeYears>
    <seer:otherIncomeYear totalAmountReceived="1968150" referenceYear="2014">
      <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="50" forGroupCode="0201"/>
        <seer:discipline apportionment="26" forGroupCode="0202"/>
        <seer:discipline apportionment="26" forGroupCode="0204"/>
        <seer:discipline apportionment="5" forGroupCode="0205"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
  </seer:otherIncomeYears>
</seer:otherPublicSectorIncome>

```

EXAMPLE TWO—The following example shows the total apportionment for Category 2 research income in 2014 is 102%. This will not generate an error.

```

<seer:otherPublicSectorIncome>
  <seer:otherIncomeYears>
    <seer:otherIncomeYear totalAmountReceived="1968150" referenceYear="2014">
      <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="50" forGroupCode="0201"/>
        <seer:discipline apportionment="26" forGroupCode="0202"/>
        <seer:discipline apportionment="26" forGroupCode="0204"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
  </seer:otherIncomeYears>
</seer:otherPublicSectorIncome>

```

BR030—Applied Measures Reference Year

ID	Expression	Severity
BR030	The Reference Year for the applied measure must be one of the following values: 2014, 2015, 2016.	Error

This rule applies to patents, Plant Breeder’s Rights, registered designs, and NHMRC endorsed guidelines.

EXAMPLE ONE—The following example shows a patent where the reference year is not within the applied measures reference period. This will generate an **error**.

```

<seer:patentFamily name="Multi-plate thin film carbon monoxide sensor">

```

```

<seer:patent referenceYear="2017" registeredCountry="2" name="Multi-plate thin film carbon
monoxide sensor" number="US 5691465" appliedMeasureOwner="2"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0305" apportionment="50"/>
    <seer:discipline forGroupCode="0307" apportionment="50"/>
  </seer:disciplineAssignment>
</seer:patentFamily>

```

BR031—Unique Researcher Names

ID	Expression	Severity
BR031	Each researcher provided should have a unique first name and last name combination.	Warning

EXAMPLE ONE—The following example shows information about three submitted researchers with same first name and last name. This will generate a **warning**.

```

<seer:researcher staffReference="ERA0001" honorific="Associate Professor" firstName="Nathan"
middleName="Liam" lastName="Wilcott" employmentLevel="013" employmentStatus="1"
researcherFunction="B" totalFte="0.5" gender="Male" >
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="40"/>
    <seer:discipline forGroupCode="0306" apportionment="40"/>
    <seer:discipline forGroupCode="0307" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="Wilcott, N. L."/>
    <seer:otherName publishedName="Wilcott, Nathan"/>
    <seer:otherName publishedName="Wilcott, Nathan L."/>
    <seer:otherName publishedName="N. L. Wilcott"/>
  </seer:otherNames>
</seer:researcher>
<seer:researcher staffReference="ERA2002" honorific="Associate Professor" firstName="nathan"
middleName="liam" lastName="wilcott" employmentLevel="013" employmentStatus="1"
researcherFunction="B" totalFte="0.5" gender="Male" >
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="40"/>
    <seer:discipline forGroupCode="0306" apportionment="40"/>
    <seer:discipline forGroupCode="0307" apportionment="20"/>
  </seer:disciplineAssignment>

```



```
<seer:otherNames>
  <seer:otherName publishedName="Wilcott, N. L."/>
  <seer:otherName publishedName="Wilcott, Nathan"/>
  <seer:otherName publishedName="Wilcott, Nathan L."/>
  <seer:otherName publishedName="N. L. Wilcott"/>
</seer:otherNames>
</seer:researcher>
<seer:researcher staffReference="ERA0003" honorific="Professor" firstName="nathan"
middleName="Bert" lastName="wilcott" employmentLevel="000" employmentStatus="3"
researcherFunction="A" totalFte="1.0" gender="Male">
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1905" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="LaMont, S"/>
    <seer:otherName publishedName="LaMont, S. B."/>
  </seer:otherNames>
</seer:researcher>
```

BR042—FTE for Researchers

ID	Expression	Severity
BR042	Where a researcher has the Employment Status of '1' (employed), a total FTE value must be provided.	Error

EXAMPLE ONE—The following example shows a researcher who has an Employment Status of '1' (employed) but no FTE has been provided. This will generate an **error**.

```
<seer:researcher staffReference="ERA0001" honorific="Associate Professor" firstName="Nathan"
middleName="Liam" lastName="Wilcott" employmentLevel="013" employmentStatus="1"
researcherFunction="B" gender="Male">
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="40"/>
    <seer:discipline forGroupCode="0306" apportionment="40"/>
    <seer:discipline forGroupCode="0307" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="Wilcott, N. L."/>
    <seer:otherName publishedName="Wilcott, Nathan"/>
    <seer:otherName publishedName="Wilcott, Nathan L."/>
    <seer:otherName publishedName="N. L. Wilcott"/>
  </seer:otherNames>
</seer:researcher>
```

EXAMPLE TWO—The following example shows a researcher who has an Employment Status of '1' (employed) and the FTE has been provided. This will not generate an error.

```
<seer:researcher staffReference="ERA0011" honorific="Associate Professor" firstName="Percy"
middleName="James" lastName="Araluen" employmentLevel="042" employmentStatus="1"
researcherFunction="B" totalFte="1.0" gender="Male">
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1905" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="Araluen, Percy"/>
    <seer:otherName publishedName="Araluen, P."/>
  </seer:otherNames>
</seer:researcher>
```

EXAMPLE THREE—The following example shows a researcher who has an Employment Status of '2' (employed on a casual basis), where the FTE is not required. This will not generate an error.

```
<seer:researcher staffReference="ERA0001" honorific="Associate Professor" firstName="Nathan"
middleName="Liam" lastName="Wilcott" employmentLevel="013" employmentStatus="2"
researcherFunction="B" gender="Male">
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="40"/>
    <seer:discipline forGroupCode="0306" apportionment="40"/>
    <seer:discipline forGroupCode="0307" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="Wilcott, N. L."/>
    <seer:otherName publishedName="Wilcott, Nathan"/>
    <seer:otherName publishedName="Wilcott, Nathan L."/>
    <seer:otherName publishedName="N. L. Wilcott"/>
  </seer:otherNames>
</seer:researcher>
```

BR047—Meaningful Information for Data Fields

ID	Expression	Severity
BR047	A data field must not contain the following items: 'N/A', 'NA', 'Not Available'.	Error

The following two examples show variations of text fields that are not regarded as meaningful. Both of these examples will generate an error.

EXAMPLE ONE—

```
<seer:researcher staffReference="ERA0001" honorific="NA" firstName="N/A" middleName="na"
lastName="n/a" employmentLevel="013" employmentStatus="1" researcherFunction="B"
totalFte="0.5" gender="Male">
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="40"/>
    <seer:discipline forGroupCode="0306" apportionment="40"/>
    <seer:discipline forGroupCode="0307" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="Wilcott, N. L."/>
  </seer:otherNames>
</seer:researcher>
```

```

    <seer:otherName publishedName="Wilcott, Nathan"/>
    <seer:otherName publishedName="Wilcott, Nathan L."/>
    <seer:otherName publishedName="N. L. Wilcott"/>
  </seer:otherNames>
</seer:researcher>

```

EXAMPLE TWO—

```

<seer:book availableInOpenAccessRepository="false" edition="1" eraPublisherId="Not available"
placeOfPublication="NA" yearPublished="2013" isbn="978-8837652893" extent="146 pages">
  <seer:title nativeScript="not available"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="NOT
AVAILABLE"/>
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="N?A."/>
    <seer:creator orderInOutput="2" publishedName="N/A"/>
    <seer:creator orderInOutput="3" publishedName="not available"/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
</seer:book>

```

BR048—Total Research Output Apportionment

ID	Expression	Severity
BR048	The sum of apportionments from the same research output must be 100%.	Error

EXAMPLE ONE—*The following example shows a research output with an apportionment totalling 120%. This will generate an **error**.*

```
<seer:book availableInOpenAccessRepository="false" edition="1" eraPublisherId="1002"
placeOfPublication="Canberra, Australia" yearPublished="2013" isbn="978-8837652893"
extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" appportionment="50"/>
    <seer:discipline forGroupCode="1905" appportionment="50"/>
    <seer:discipline forGroupCode="1302" appportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
</seer:book>
```

EXAMPLE TWO—The following example shows a research output with an apportionment totalling 99%. This will generate an **error**.

```
<seer:originalCreativeWork availableInOpenAccessRepository="false" extent="15 pages"
yearPublished="2013" category="3" placeOfPublication="Sydney, Australia" media="textual work"
notes="Published in The Australian (3 March-30 March)">
  <seer:title nativeScript="A Different Horizon: Australian/New Zealand Relations"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1903" apportionment="49"/>
    <seer:discipline forGroupCode="1904" apportionment="50"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
repositoryLink="https://closed.other.edu.au/images/1905454847" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0014"/>
  </seer:staffCreators>
</seer:originalCreativeWork>
```

BR049—Research Output Apportionments

ID	Expression	Severity
BR049	The apportionment for each FoR assigned to a research output must be between 20% and 100% inclusive.	Error

EXAMPLE ONE—The following example shows the apportionment of an FoR at below the minimum apportionment (20%). This will generate an **error**.

```
<seer:book availableInOpenAccessRepository="false" edition="1" eraPublisherId="2001"
placeOfPublication="Canberra, Australia" yearPublished="2013" isbn="978-8837652893"
extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="5"/>
    <seer:discipline forGroupCode="1905" apportionment="95"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
```

```

        <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
    </seer:electronicLocations>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Efland, A."/>
        <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
        <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0003"/>
    </seer:staffCreators>
</seer:book>

```

BR050—Research Outputs Language Code

ID	Expression	Severity
BR050	The language code assigned to a research output must match a language code from the ABS language reference list.	Error

EXAMPLE ONE—*The following example shows the submission of an incorrect language code; that is, one that does not accord with the ABS language reference list. This will generate an **error**.*

```

<seer:recordedOrRenderedWork availableInOpenAccessRepository="false" category="1"
placeOfPublication="Melbourne" yearPublished="2015" extent="1 minute 36 seconds"
publisher="ShotInTheDark Productions" media="Included are: high-definition short film; publication
material; and reviews in local and national outlets (x5).">
    <seer:title nativeScript="Το Φένσι " romanScript="To Fensi" translated="The Fencie (The
Fence)" language="2000"/>
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="1902" apportionment="40"/>
        <seer:discipline forGroupCode="1604" apportionment="30"/>
        <seer:discipline forGroupCode="2003" apportionment="30"/>
    </seer:disciplineAssignment>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Poulos, P."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0011"/>
    </seer:staffCreators>

```

</seer:recordedOrRenderedWork>

BR054—ERA Journal ID

ID	Expression	Severity
BR054	The ERA Journal ID must match the ERA Journal ID provided in the <i>ERA 2018 Submission Journal List</i> .	Error

NOTE—The following journal information will be used in the examples for BR054, BR059 and BR113 only

ERAID	Title	FoR 1	FoR 2
30533	AA files: annals of the Architectural Association School of Architecture	1201	1202
36072	AACE International Transactions	12	15

EXAMPLE ONE—The following example shows that the ERA Journal ID does not exist in the *ERA 2018 Submission Journal List*. This will generate an **error**.

```
<seer:journalArticle availableInOpenAccessRepository="false" yearPublished="2012"
extent="32 pages" journalIssue="7439" journalVolume="328">
  <seer:title nativeScript="Guess What's Coming for Dinner: Quick Patient Recovery and
Quality of Hospital Food - A Quantitative Study. "/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1103" apportionment="75"/>
    <seer:discipline forGroupCode="1111" apportionment="25"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Rhan, S. K."/>
    <seer:creator orderInOutput="2" publishedName="Contras, B."/>
    <seer:creator orderInOutput="3" publishedName="Dimitriev, M."/>
    <seer:creator orderInOutput="4" publishedName="Zetland, G."/>
    <seer:creator orderInOutput="5" publishedName="Clarence, B."/>
    <seer:creator orderInOutput="6" publishedName="Pinker, L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0009"/>
  </seer:staffCreators>
```


<seer:journalOutlet eraJournalId="00"/>

</seer:journalArticle>

BR059—Assignment of Journal Two--Digit FoR Codes

ID	Expression	Severity
BR059	If the FoR code assigned to the journal article is not a subset of the two-digit FoR code for the relevant journal (as <i>per ERA 2018 Submission Journal List</i>), the apportioned value of the FoR must be equal to or greater than 66%.	Error

NOTE—The following journal information will be used in the examples for BR054, BR059 and BR113 only

ERAID	Title	FoR 1	FoR 2
30533	AA files: annals of the Architectural Association School of Architecture	1201	1202
36072	AACE International Transactions	12	15

EXAMPLE ONE—The following example shows a journal article where the journal is assigned to one or more two-digit FoR codes (FoR 15 and 12, in this case), and one of the assigned FoRs is not within the two-digit FoR identified in the ERA 2018 Submission Journal List. This will generate an **error**.

```
<seer:journalArticle availableInOpenAccessRepository="false" yearPublished="2012" extent="10 Pages" identifier="XXX " journalIssue="2" journalVolume="112">
```

```
<seer:title nativeScript="Lesion Sites in Cases of Efferent Motor Aphasia "/>
```

```
<seer:disciplineAssignment>
```

```
<seer:discipline forGroupCode="1501" apportionment="60"/>
```

```
<seer:discipline forGroupCode="1502" apportionment="20"/>
```

```
<seer:discipline forGroupCode="1603" apportionment="20"/>
```

```
</seer:disciplineAssignment>
```

```
<seer:creators>
```

```
<seer:creator orderInOutput="1" publishedName="Shinapak, T."/>
```

```
<seer:creator orderInOutput="2" publishedName="Lehman, F. M."/>
```

```
<seer:creator orderInOutput="3" publishedName="Pinker, H. J. "/>
```

```
</seer:creators>
```

```
<seer:staffCreators>
```

```
<seer:staffCreator staffReference="ERA0008"/>
```

```

</seer:staffCreators>
<seer:journalOutlet eraJournalId=" 36072"/>
</seer:journalArticle>

```

EXAMPLE TWO—The following example shows a journal article where the journal is assigned to one or more two-digit FoR codes (FoR 15 and 12, in this case), one of the assigned FoRs is not within the two-digit FoR identified in the ERA 2018 Submission Journal List, but that FoR has a discipline apportionment of 66% or higher. In this example, This will not generate an **error**.

```

<seer:journalArticle availableInOpenAccessRepository="false" yearPublished="2012"
extent="10 Pages" identifier="XXX" journalIssue="2" journalVolume="112">
  <seer:title nativeScript="Lesion Sites in Cases of Efferent Motor Aphasia" />
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0201" apportionment="66"/>
    <seer:discipline forGroupCode="1502" apportionment="34"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Shinapak, T." />
    <seer:creator orderInOutput="2" publishedName="Lehman, F. M." />
    <seer:creator orderInOutput="3" publishedName="Pinker, H. J." />
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0008"/>
  </seer:staffCreators>
  <seer:journalOutlet eraJournalId=" 36072"/>
</seer:journalArticle>

```

BR062—Non-Traditional Research Output Reference Period

ID	Expression	Severity
BR062	A non-traditional research output must have either the Year Published or Year Presented within the research output reference period (2011-2016).	Error

EXAMPLE ONE—The following example shows a non-traditional research output, with the Year Published outside of the reference period (2011-2016 inclusively) and no Year Presented. This will generate an **error**.

```

<seer:recordedOrRenderedWork availableInOpenAccessRepository="false" category="1"
placeOfPublication="Melbourne" yearPublished="2010" extent="1 minute 36 seconds"
publisher="ShotInTheDark Productions" media="Included are: high-definition short film; publication
material; and reviews in local and national outlets (x5).">

```

```

<seer:title nativeScript="Το Φένσι " romanScript="To Fensi" translated="The Fencie (The
Fence)" language="2201"/>
<seer:disciplineAssignment>
  <seer:discipline forGroupCode="1902" apportionment="40"/>
  <seer:discipline forGroupCode="1604" apportionment="30"/>
  <seer:discipline forGroupCode="2003" apportionment="30"/>
</seer:disciplineAssignment>
<seer:creators>
  <seer:creator orderInOutput="1" publishedName="Poulos, P."/>
</seer:creators>
<seer:staffCreators>
  <seer:staffCreator staffReference="ERA0012"/>
</seer:staffCreators>
<seer:researchStatement>
  Research Background;
  Research Contribution;
  Research Significance.
</seer:researchStatement>
</seer:recordedOrRenderedWork>

```

EXAMPLE TWO—*The following example shows both the Year Published and the Year Presented of a non-traditional research output falling outside the reference period (2011-2016 inclusively). This will generate an **error**.*

```

<seer:curatedExhibitionOrEvent availableInOpenAccessRepository="false" category="2"
publisher="Orange Regional Gallery" placeOfPublication="Orange, NSW" yearPublished="2017"
yearPresented="2017" extent="1 minute 36 seconds; short film, 5 artworks, 30&quot; performance
piece">
  <seer:title nativeScript="Trip the Light Fantastic "/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1905" apportionment="60"/>
    <seer:discipline forGroupCode="1902" apportionment="20"/>
    <seer:discipline forGroupCode="1904" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos1.other.edu.au/7608-1"
  />
    <seer:electronicLocation repositoryLink="https://repos1.other.edu.au/7608-7"
  />
  </seer:electronicLocations>
  <seer:creators>

```

```

        <seer:creator orderInOutput="1" publishedName="Riverstone, Matthew"/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0013"/>
    </seer:staffCreators>
    <seer:nominatedPRDisciplines>
        <seer:nominatedPRDiscipline forGroupCode="1905"/>
        <seer:nominatedPRDiscipline forGroupCode="1902"/>
    </seer:nominatedPRDisciplines>
    <seer:researchStatement>
        Research Background;
        Research Contribution;
        Research Significance.
    </seer:researchStatement>
</seer:curatedExhibitionOrEvent>

```

BR066—Minimum Outputs for Researchers

ID	Expression	Severity
BR066	If a researcher has an Employment Status of '2' (employed-casual) or '3' (other), then they must have at least one research output submitted. NOTE— for researchers with the Employment Status '2' and '3', institutions may only submit the research outputs which have a publication association between the researcher and the institution.	Error

EXAMPLE ONE—The following example shows that the staff reference assigned to an eligible researcher with an Employment Status of '2' or '3' has also been assigned to at least one research output. This will not generate an **error**.

```

<!--a researcher -->
<seer:researcher staffReference="ERA00089" honorific="Associate Professor"
firstName="Nathan" middleName="Liam" lastName="Wilcott" employmentLevel="013"
employmentStatus="2" researcherFunction="B" totalFte="0.5" gender="Males">
    <!--...-->
<!--an output related to the research mentioned above --
<seer:book availableInOpenAccessRepository="false" edition="1" eraPublisherId="1001"
placeOfPublication="Canberra, Australia" yearPublished="2012" isbn="978-
8837652893" extent="146 pages">
    <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="1901" apportionment="50"/>

```

```

    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
    <seer:creator orderInOutput="4" publishedName="Wilcott, N. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA00089"/>
  </seer:staffCreators>
</seer:book>

```

BR067—Applied Measure Apportionment

ID	Expression	Severity
BR067	The sum of apportionments from the same applied measure must be 100%.	Error

EXAMPLE ONE—*The following example shows a patent with a combined discipline assignment equalling 150%. This will generate an **error**.*

```

<seer:patentFamily name="Multi-plate thin film carbon monoxide sensor">
  <seer:patent referenceYear="2014" registeredCountry="2" name="Multi-plate thin film carbon
monoxide sensor" number="US 5691465" appliedMeasureOwner = "2">
    <seer:disciplineAssignment>
      <seer:discipline forGroupCode="0305" apportionment="50"/>
      <seer:discipline forGroupCode="0307" apportionment="100"/>
    </seer:disciplineAssignment>
  </seer:patentFamily>

```

EXAMPLE TWO—The following example shows a patent with a combined discipline assignment equalling 99.9%. This will generate an **error**.

```
<seer:patentFamily name="Multi-plate thin film carbon monoxide sensor">
  <seer:patent referenceYear="2015" registeredCountry="2" name="Multi-plate thin film carbon monoxide sensor" number="US 56914677" appliedMeasureOwner = "2" >
    <seer:disciplineAssignment>
      <seer:discipline forGroupCode="0305" apportionment="24.4"/>
      <seer:discipline forGroupCode="0307" apportionment="75.5"/>
    </seer:disciplineAssignment>
  </seer:patentFamily>
```

BR068—Unique Patent Number

ID	Expression	Severity
BR068	Each patent number within a submission must be unique.	Error

EXAMPLE ONE—The following example shows two patents, both with the same patent number. This will generate an **error**.

```
<seer:patentFamily name="Multi-plate thin film carbon monoxide sensor">
  <seer:patent referenceYear="2015" registeredCountry="2" name="Multi-plate thin film carbon monoxide sensor" number="US 5691465" appliedMeasureOwner = "2" >
    <seer:disciplineAssignment>
      <seer:discipline forGroupCode="0302" apportionment="50"/>
      <seer:discipline forGroupCode="0307" apportionment="50"/>
    </seer:disciplineAssignment>
  </seer:patentFamily>
<seer:patentFamily name="Multi-plate thin film carbon monoxide sensor">
  <seer:patent referenceYear="2015" registeredCountry="2" name="Multi-plate thin film carbon monoxide sensor" number="US 5691465" appliedMeasureOwner = "2" >
    <seer:disciplineAssignment>
      <seer:discipline forGroupCode="0305" apportionment="50"/>
      <seer:discipline forGroupCode="0306" apportionment="50"/>
    </seer:disciplineAssignment>
  </seer:patentFamily>
```

BR069—Unique Registered Design ID

ID	Expression	Severity
BR069	Each registered design ID within a submission must be unique.	Error

EXAMPLE ONE—The following example shows two registered designs, both with the same registered ID. This will generate an **error**.

```
<seer:registeredDesign referenceYear="2014" name="Hemostat style elongated dissecting and
dividing instrument " registryOrganisation="IP Australia" registeredId="AU316731S"
appliedMeasureOwner = "2" >
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0803" apportionment="100"/>
  </seer:disciplineAssignment>
</seer:registeredDesign>
<seer:registeredDesign referenceYear="2014" name="Hemostat style elongated dissecting and
dividing instrument " registryOrganisation="IP Australia" registeredId="AU316731S"
appliedMeasureOwner = "2" >
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0804" apportionment="100"/>
  </seer:disciplineAssignment>
</seer:registeredDesign>
```

BR070—Unique Plant Breeder’s Right Number

ID	Expression	Severity
BR070	Each Plant Breeder’s Right application number within a submission must be unique.	Error

EXAMPLE ONE—The following example shows two Plant Breeder’s Rights, both with the same application number. This will generate an **error**.

```
<seer:plantBreedersRightsFamily name="Agavaceae">
  <seer:plantBreedersRights referenceYear="2015" countryOfRegistration="6201"
name="Hosta capitata" number="545464" appliedMeasureOwner = "2" >
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0607" apportionment="100"/>
  </seer:disciplineAssignment>
</seer:plantBreedersRightsFamily>
<seer:plantBreedersRightsFamily name="Agavaceae">
  <seer:plantBreedersRights referenceYear="2015" countryOfRegistration="6201"
name="Hosta capitata" number="545464" appliedMeasureOwner = "2" >
```

```

<seer:disciplineAssignment>
  <seer:discipline forGroupCode="0607" apportionment="100"/>
</seer:disciplineAssignment>
</seer:plantBreedersRightsFamily>

```

BR071—Plant Breeder’s Rights Country of Registration Code

ID	Expression	Severity
BR071	The country of registration code assigned to the Plant Breeder's Right must match the ABS country codes.	Error

EXAMPLE ONE—The following example shows an invalid country of registration code assigned to a Plant Breeder’s Right. This will generate an **error**.

```

<seer:plantBreedersRightsFamily name="Rosaceae">
  <seer:plantBreedersRights referenceYear="2015" countryOfRegistration="0000"
  name="Lynothamnus" number="2015/075" appliedMeasureOwner = "2" >
    <seer:disciplineAssignment>
      <seer:discipline forGroupCode="0607" apportionment="50"/>
      <seer:discipline forGroupCode="0604" apportionment="50"/>
    </seer:disciplineAssignment>
  </seer:plantBreedersRightsFamily>

```

BR072—Research Commercialisation Income Apportionment

ID	Expression	Severity
BR072	The sum of apportionments from the same year for research commercialisation income must be between 95% and 105% inclusively.	Error

EXAMPLE ONE—The following example shows the sum of FoR apportionment within each reference year is not between the required 95% and 105%. This will generate an **error**.

```

<seer:researchCommercialisationIncome>
  <seer:otherIncomeYears>
    <seer:otherIncomeYear totalAmountReceived="13020" referenceYear="2014">
      <seer:incomeDisciplineAssignment>
        <seer:discipline forGroupCode="0205" apportionment="7.68"/>
        <seer:discipline forGroupCode="0303" apportionment="7.68"/>
        <seer:discipline forGroupCode="0304" apportionment="3.84"/>
        <seer:discipline forGroupCode="0401" apportionment="5.76"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
  </seer:otherIncomeYears>
</seer:researchCommercialisationIncome>

```



```

<seer:discipline forGroupCode="0404" apportionment="3.84"/>
<seer:discipline forGroupCode="1903" apportionment="1.54"/>
<seer:discipline forGroupCode="2099" apportionment="0.23"/>
<seer:discipline forGroupCode="0501" apportionment="4.61"/>
<seer:discipline forGroupCode="0902" apportionment="6.91"/>
<seer:discipline forGroupCode="0911" apportionment="26.88"/>
<seer:discipline forGroupCode="1403" apportionment="3.46"/>
<seer:discipline forGroupCode="1602" apportionment="1.54"/>
<seer:discipline forGroupCode="1702" apportionment="1.54"/>
<seer:discipline forGroupCode="0103" apportionment="3.84"/>
<seer:discipline forGroupCode="0803" apportionment="5.3"/>
<seer:discipline forGroupCode="0805" apportionment="4.22"/>
<seer:discipline forGroupCode="0604" apportionment="1.54"/>
<seer:discipline forGroupCode="0701" apportionment="5.76"/>
<seer:discipline forGroupCode="1106" apportionment="10.00"/>
</seer:incomeDisciplineAssignment>
</seer:otherIncomeYear>
<seer:otherIncomeYear totalAmountReceived="11870" referenceYear="2015">
  <seer:incomeDisciplineAssignment>
    <seer:discipline forGroupCode="0205" apportionment="60"/>
    <seer:discipline forGroupCode="0303" apportionment="34"/>
  </seer:incomeDisciplineAssignment>
</seer:otherIncomeYear>
<seer:otherIncomeYear totalAmountReceived="8840" referenceYear="2016">
  <seer:incomeDisciplineAssignment>
    <seer:discipline forGroupCode="0201" apportionment="9.45"/>
    <seer:discipline forGroupCode="1106" apportionment="95.66"/>
  </seer:incomeDisciplineAssignment>
</seer:otherIncomeYear>
</seer:otherIncomeYears>
</seer:researchCommercialisationIncome>

```

BR073—Category 1 Research Income Apportionment

ID	Expression	Severity
BR073	The sum of apportionments from the same year for each grant income (Category 1) must be between 95% and 105% inclusively.	Error

EXAMPLE ONE—The following example shows the sum of FoR apportionment in one of the reference years is not between the required 95% and 105%. According to the following example, the total amount of Category 1 research income for 2014 is 96.7%, which is within the allowed percentage. The total amount of Category 1 research income for 2015, however, is 94%, which is outside the allowed percentage. This will generate an **error**.

```
<seer:australianCompetitiveGrant grantID="DPxxx/2013" percentageOfGrantWithinRefPeriod="100">
  <seer:incomeYears>
    <seer:incomeYear acgrCode="FND2014_066" referenceYear="2014"
totalAmountReceived="100000">
      <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="45.5" forGroupCode="0201"/>
        <seer:discipline apportionment="25.5" forGroupCode="0202"/>
        <seer:discipline apportionment="25.7" forGroupCode="0204"/>
      </seer:incomeDisciplineAssignment>
    </seer:incomeYear>
    <seer:incomeYear acgrCode="FND2015_050" referenceYear="2015"
totalAmountReceived="100000">
      <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="45" forGroupCode="0201"/>
        <seer:discipline apportionment="25" forGroupCode="0202"/>
        <seer:discipline apportionment="24" forGroupCode="0204"/>
      </seer:incomeDisciplineAssignment>
    </seer:incomeYear>
  </seer:incomeYears>
</seer:australianCompetitiveGrant>
```

BR086—Nominated FoR for ERA Peer Review of Research Outputs

ID	Expression	Severity
BR086	The FoR codes listed as nominated PR Disciplines must accord with the ERA peer review indicator set in the <i>ERA 2018 Discipline Matrix</i> .	Error

EXAMPLE ONE—The following example shows a research output where the nominated Peer

Review Discipline is 0201 – a four-digit FoR that is not identified as using peer review in the ERA 2018 Discipline Matrix. This will generate an **error**.

```
<seer:book availableInOpenAccessRepository="false" edition="1" eraPublisherId="1002"
placeOfPublication="Canberra, Australia" yearPublished="2012" isbn="978-
8837652893" extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="0201" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1901"/>
    <seer:nominatedPRDiscipline forGroupCode="1905"/>
    <seer:nominatedPRDiscipline forGroupCode="0201"/>
  </seer:nominatedPRDisciplines>
</seer:book>
```

BR090 & BR092—Research Income (Research Commercialisation and Categories 2, 3, and 4) Minimum Amounts

ID	Expression	Severity
BR090	For research commercialisation income, the total amount submitted for each year must not be less than or equal to zero.	Error

ID	Expression	Severity
BR092	For income (Category 2, Category 3 (including subcategories) and Category 4), the total amount submitted for each year must not be less than or equal to zero.	Error

EXAMPLE ONE—The following example shows the total research commercialisation income received in year 2011 equals -1500. This will generate an **error**. This example is also relevant to Category 2, 3 and 4 income.

```

<seer:researchCommercialisationIncome>
  <seer:otherIncomeYears>
    <seer:otherIncomeYear totalAmountReceived="-1500" referenceYear="2014">
      <seer:incomeDisciplineAssignment>
        <seer:discipline forGroupCode="0205" apportionment="50"/>
        <seer:discipline forGroupCode="0303" apportionment="50"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
    <seer:otherIncomeYear totalAmountReceived="3500" referenceYear="2015">
      <seer:incomeDisciplineAssignment>
        <seer:discipline forGroupCode="0205" apportionment="50"/>
        <seer:discipline forGroupCode="0303" apportionment="50"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
    <seer:otherIncomeYear totalAmountReceived="5000" referenceYear="2016">
      <seer:incomeDisciplineAssignment>
        <seer:discipline forGroupCode="0201" apportionment="50"/>
        <seer:discipline forGroupCode="0303" apportionment="50"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
  </seer:otherIncomeYears>
</seer:researchCommercialisationIncome>

```

BR091—Category 1 Research Income Minimum Amounts

ID	Expression	Severity
BR091	For income (Category 1), the total amount submitted for each year of each grant must not be less than or equal to zero.	Error

EXAMPLE ONE—The following example shows the total Category 1 income received in 2015 is

less than 0. This will generate an **error**.

```
<seer:australianCompetitiveGrant grantID="LPxxx/2014" percentageOfGrantWithinRefPeriod="33.33">
  <seer:incomeYears>
    <seer:incomeYear acgrCode="FND2014_091" referenceYear="2014"
totalAmountReceived="50000">
      <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="50" forGroupCode="0305"/>
        <seer:discipline apportionment="50" forGroupCode="1201"/>
      </seer:incomeDisciplineAssignment>
    </seer:incomeYear>
    <seer:incomeYear acgrCode="FND2015_040" referenceYear="2015"
totalAmountReceived="-50000">
      <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="50" forGroupCode="0305"/>
        <seer:discipline apportionment="50" forGroupCode="1201"/>
      </seer:incomeDisciplineAssignment>
    </seer:incomeYear>
  </seer:incomeYears>
</seer:australianCompetitiveGrant>
```

EXAMPLE TWO—The following example shows the total Category 1 income received is a negative amount. This will generate an **error**.

```
<seer:australianCompetitiveGrant grantID="LPxxx/2011" percentageOfGrantWithinRefPeriod="100">
  <seer:incomeYears>
    <seer:incomeYear acgrCode="FND2014_066" referenceYear="2014"
totalAmountReceived="-100000">
      <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="40" forGroupCode="0201"/>
        <seer:discipline apportionment="20" forGroupCode="0202"/>
        <seer:discipline apportionment="10" forGroupCode="0203"/>
        <seer:discipline apportionment="20" forGroupCode="0204"/>
        <seer:discipline apportionment="10" forGroupCode="2299"/>
      </seer:incomeDisciplineAssignment>
    </seer:incomeYear>
    <seer:incomeYear acgrCode="FND2016_050" referenceYear="2016"
totalAmountReceived="75000">
      <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="50" forGroupCode="0204"/>
        <seer:discipline apportionment="50" forGroupCode="0205"/>
      </seer:incomeDisciplineAssignment>
    </seer:incomeYear>
  </seer:incomeYears>
</seer:australianCompetitiveGrant>
```

```

        </seer:incomeDisciplineAssignment>
    </seer:incomeYear>
    </seer:incomeYears>
</seer:australianCompetitiveGrant>

```

BR094—FoRs for Non--Traditional Research Outputs

ID	Expression	Severity
BR094	All the FoR codes assigned to the non-traditional research output should accord with the non-traditional research output indicator set of the FoR within the <i>ERA 2018 Discipline Matrix</i> .	Error

EXAMPLE ONE—The following example shows that the non-traditional research output has at least one assigned FoR that does not match the non-traditional research output indicator set in the *ERA 2018 Discipline Matrix*. This will generate an **error**.

```

<seer:originalCreativeWork availableInOpenAccessRepository="false" extent="1 piece"
yearPublished="2014" category="1" placeOfPublication="Melbourne" media="installation">
    <seer:title nativeScript="Imagined Realities"/>
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="1905" apportionment="50"/>
        <seer:discipline forGroupCode="0501" apportionment="50"/>
    </seer:disciplineAssignment>
    <seer:electronicLocations>
        <seer:electronicLocation
repositoryLink="https://closed.other.edu.au/images/1905454844" />
        <seer:electronicLocation
repositoryLink="https://closed.other.edu.au/images/1905454845" />
        <seer:electronicLocation
repositoryLink="https://closed.other.edu.au/images/1905454846" />
    </seer:electronicLocations>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="LaMont, S. B."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0003"/>
    </seer:staffCreators>
    <seer:nominatedPRDisciplines>
        <seer:nominatedPRDiscipline forGroupCode="1905"/>
    </seer:nominatedPRDisciplines>

```

```

<seer:researchStatement>
  Research Background
  Research Contribution
  Research Significance
</seer:researchStatement>
</seer:originalCreativeWork>

```

BR095—FoRs for Applied Measures

ID	Expression	Severity
BR095	All the FoR codes assigned to the applied measure must accord with the applied measure indicator set of the FoR within the <i>ERA 2018 Discipline Matrix</i> .	Error

EXAMPLE ONE—The following example shows that at least one FoR code assigned to this applied measure does not correspond to the applied measure indicator set of that FoR within the ERA 2018 Discipline Matrix. This will generate an **error**.

```

<seer:patentFamily name="Multi-plate thin film carbon monoxide sensor">
  <seer:patent referenceYear="2014" registeredCountry="2" name="Multi-plate thin film carbon
  monoxide sensor" number="US 5691465" appliedMeasureOwner = "2">
    <seer:disciplineAssignment>
      <seer:discipline forGroupCode="0305" apportionment="50"/>
      <seer:discipline forGroupCode="1801" apportionment="50"/>
    </seer:disciplineAssignment>
  </seer:patentFamily>

```

BR097—Valid FoR Code

ID	Expression	Severity
BR097	The FoR code submitted must match a valid FoR code listed in the ANZSRC.	Error

The FoR code must be a valid FoR code. If it is not, this will generate an **error**.

BR099—Nominated Peer Review Discipline

ID	Expression	Severity
BR099	The research output can only be nominated for ERA peer review in one (or more) of the FoR codes to which it is assigned.	Error

EXAMPLE ONE—The following example shows a research output where the FoR that is nominated for peer review does not match any of the three FoRs submitted within the discipline assignment. This will generate an **error**.

```
<seer:book availableInOpenAccessRepository="false" edition="1" eraPublisherId="1002"
placeOfPublication="Canberra, Australia" yearPublished="2012" isbn="978-8837652893" extent="146
pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1901">
    <seer:nominatedPRDiscipline forGroupCode="1905">
    <seer:nominatedPRDiscipline forGroupCode="1902">
  </seer:nominatedPRDisciplines>
</seer:book>
```


EXAMPLE TWO—*The following example shows the snippet above, without any discrepancies.*

```
<seer:book availableInOpenAccessRepository="false" edition="1" eraPublisherId="1002"
placeOfPublication="Canberra, Australia" yearPublished="2012" isbn="978-8837652893" extent="146
pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1901">
    <seer:nominatedPRDiscipline forGroupCode="1905">
  </seer:nominatedPRDisciplines>
</seer:book
```

BR104—Number of Creators

ID	Expression	Severity
BR104	The orderInOutput for authors connected to this research output must be in sequence starting from 1.	Error

EXAMPLE ONE—*The following example shows creators list with the orderInOutput number out of sequence. This will generate an **error**.*

```
<seer:journalArticle availableInOpenAccessRepository="false" yearPublished="2015" extent="32
pages" journalIssue="7439" journalVolume="328">
```

```

<seer:title nativeScript="Guess What&apos;s Coming for Dinner: Quick Patient Recovery
and Quality of Hospital Food - A Quantitative Study. "/>
<seer:disciplineAssignment>
  <seer:discipline forGroupCode="1111" apportionment="100"/>
</seer:disciplineAssignment>
<seer:creators>
  <seer:creator orderInOutput="1" publishedName="Rhan, S. K."/>
  <seer:creator orderInOutput="2" publishedName="Contras, B."/>
  <seer:creator orderInOutput="6" publishedName="Pinker, L."/>
</seer:creators>
<seer:staffCreators>
  <seer:staffCreator staffReference="ERA0009"/>
</seer:staffCreators>
<seer:journalOutlet eraJournalId="13378"/>
</seer:journalArticle>

```

EXAMPLE TWO—*The following example shows the snippet above without any discrepancies.*

```

<seer:journalArticle yearPublished="2015" extent="32 pages" journalIssue="7439"
journalVolume="328">
  <seer:title nativeScript="Guess What&apos;s Coming for Dinner: Quick Patient Recovery
and Quality of Hospital Food - A Quantitative Study. "/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1111" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Rhan, S. K."/>
    <seer:creator orderInOutput="2" publishedName="Contras, B."/>
    <seer:creator orderInOutput="3" publishedName="Dimitriev, M."/>
    <seer:creator orderInOutput="4" publishedName="Zetland, G."/>
    <seer:creator orderInOutput="5" publishedName="Clarence, B."/>
    <seer:creator orderInOutput="6" publishedName="Pinker, L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0009"/>
  </seer:staffCreators>
  <seer:journalOutlet eraJournalId="13378"/>
</seer:journalArticle>

```

BR106—ACGR Code

ID	Expression	Severity
BR106	The ACGR code must be valid according to the codes listed in the ACGR code table for each reference year of the grant.	Error

NOTE—The following category 1 income grant information will be used in the examples for BR106 and BR142 only

2011		2012		2013	
ACG Code	Organisation/ Scheme	ACG Code	Organisation/ Scheme	ACG Code	Organisation/ Scheme
FND20 14_121	The Financial Markets Foundation for Children	FND20 15_138	The Financial Markets Foundation for Children	FND2 016_1 45	The Financial Markets Foundation for Children
FND20 14_122	The Garnett Passe & Rodney Williams Memorial Foundation - Project Grants	FND20 15_139	The Garnett Passe & Rodney Williams Memorial Foundation - Project Grants	FND2 016_1 46	The Garnett Passe & Rodney Williams Memorial Foundation - Project Grants

EXAMPLE ONE—The following example shows an invalid ACGR code within a year. This will generate an **error**.

```

<seer:australianCompetitiveGrant grantID="LPxxxx/2013"
percentageOfGrantWithinRefPeriod="100">
  <seer:incomeYears>
    <seer:incomeYear acgrCode="FND2014_138" referenceYear="2014"
totalAmountReceived="100000">
      <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="40" forGroupCode="0201"/>
        <seer:discipline apportionment="20" forGroupCode="0202"/>
        <seer:discipline apportionment="10" forGroupCode="0203"/>
        <seer:discipline apportionment="20" forGroupCode="0204"/>
        <seer:discipline apportionment="10" forGroupCode="2299"/>
      </seer:incomeDisciplineAssignment>
    </seer:incomeYear>
    <seer:incomeYear acgrCode="FND2015_145" referenceYear="2015"
totalAmountReceived="75000">
      <seer:incomeDisciplineAssignment>

```

```

        <seer:discipline apportionment="50" forGroupCode="0204"/>
        <seer:discipline apportionment="50" forGroupCode="0205"/>
    </seer:incomeDisciplineAssignment>
</seer:incomeYear>
</seer:incomeYears>
</seer:australianCompetitiveGrant>

```

EXAMPLE TWO—*The following example shows an invalid ACGR code. This will generate an error.*

```

<seer:australianCompetitiveGrant grantID="LPxxx/2013"
percentageOfGrantWithinRefPeriod="100">
    <seer:incomeYears>
        <seer:incomeYear acgrCode="FND2014_200" referenceYear="2014"
totalAmountReceived="100000">
            <seer:incomeDisciplineAssignment>
                <seer:discipline apportionment="40" forGroupCode="0201"/>
                <seer:discipline apportionment="20" forGroupCode="0202"/>
                <seer:discipline apportionment="10" forGroupCode="0203"/>
                <seer:discipline apportionment="20" forGroupCode="0204"/>
                <seer:discipline apportionment="10" forGroupCode="2299"/>
            </seer:incomeDisciplineAssignment>
        </seer:incomeYear>
        <seer:incomeYear acgrCode="FND2015_210" referenceYear="2015"
totalAmountReceived="75000">
            <seer:incomeDisciplineAssignment>
                <seer:discipline apportionment="50" forGroupCode="0204"/>
                <seer:discipline apportionment="50" forGroupCode="0205"/>
            </seer:incomeDisciplineAssignment>
        </seer:incomeYear>
    </seer:incomeYears>
</seer:australianCompetitiveGrant>

```

EXAMPLE THREE—*The following example shows a valid ACGR code within a reference year. This will not generate an error.*

```

<seer:australianCompetitiveGrant grantID="LPxxx/2013"
percentageOfGrantWithinRefPeriod="100">
    <seer:incomeYears>
        <seer:incomeYear acgrCode="FND2015_138" referenceYear="2015"
totalAmountReceived="100000">

```

```

<seer:incomeDisciplineAssignment>
  <seer:discipline apportionment="40" forGroupCode="0201"/>
  <seer:discipline apportionment="20" forGroupCode="0202"/>
  <seer:discipline apportionment="10" forGroupCode="0203"/>
  <seer:discipline apportionment="20" forGroupCode="0204"/>
  <seer:discipline apportionment="10" forGroupCode="2299"/>
</seer:incomeDisciplineAssignment>
</seer:incomeYear>
<seer:incomeYear acgrCode="FND2016_145" referenceYear="2016"
totalAmountReceived="75000">
  <seer:incomeDisciplineAssignment>
    <seer:discipline apportionment="50" forGroupCode="0204"/>
    <seer:discipline apportionment="50" forGroupCode="0205"/>
  </seer:incomeDisciplineAssignment>
</seer:incomeYear>
</seer:incomeYears>
</seer:australianCompetitiveGrant>

```

BR109—ERA Peer Review Nomination

ID	Expression	Severity
BR109	The Unit of Evaluation with peer review component must have 30% of its apportioned research outputs for each research output type nominated for peer review at the four-digit FoR level.	Error

For a detailed explanation of this business rule, please refer to the Peer Review Calculation section of this document.

BR112—Employed Staff Member with less than 0.4 FTE

ID	Expression	Severity
BR112	Staff employed at less than 0.4 FTE must be included in the staff data. Their publications must be included if they are published within the reference period and at least one publication has a byline linking the staff member to the submitting institution, or a demonstration of a publication association where the byline is not available on the publication.	Warning

EXAMPLE ONE—The following example shows a researcher whose Employment Status is '1' with an FTE of less than 0.4 and is associated with at least one output in the submission . This will generate a **warning**.

```
<seer:researcher staffReference="ERA0003" honorific="Professor" firstName="Susan"
middleName="Beatrice" lastName="LaMont" employmentLevel="000" employmentStatus="1"
researcherFunction="A" totalFte="0.3" gender="Female" >
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1905" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="LaMont, S"/>
  </seer:otherNames>
</seer:researcher>
<seer:book availableInOpenAccessRepository="true" edition="1" eraPublisherId="42282"
placeOfPublication="Canberra, Australia" yearPublished="2012" isbn="978-8837652893" extent="146
pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
  </seer:creators>
</seer:book>
```

```
<seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
</seer:creators>
<seer:staffCreators>
  <seer:staffCreator staffReference="ERA0003"/>
</seer:staffCreators>
<seer:nominatedPRDisciplines>
  <seer:nominatedPRDiscipline forGroupCode="1302"/>
  <seer:nominatedPRDiscipline forGroupCode="1901"/>
</seer:nominatedPRDisciplines>
</seer:book>
```

BR113—Reassignment of FoR Codes

ID	Expression	Severity
BR113	If the FoR code assigned to a journal article does not match the FoR code(s) specified in the <i>ERA 2018 Submission Journal List</i> then the apportionment value of that FoR code must be at least 66%.	Error

NOTE—The following journal information will be used in the examples for BR054, BR059 and BR113 only

ERAID	Title	FoR 1	FoR 1 Name
30533	AA files: annals of the Architectural Association School of Architecture	1201	1202
36072	AACE International Transactions	12	15

EXAMPLE ONE—The following example shows a journal article where one of the assigned FoRs is not an FoR identified in the *ERA 2018 Submission Journal List*. In this example, this will generate an **error**.

```
<seer:journalArticle availableInOpenAccessRepository="false" yearPublished="2011"
extent="10 Pages" identifier="XXX" journalIssue="2" journalVolume="112">
  <seer:title nativeScript="Lesion Sites in Cases of Efferent Motor Aphasia" />
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1201" apportionment="50"/>
    <seer:discipline forGroupCode="1502" apportionment="50"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Shinapak, T." />
    <seer:creator orderInOutput="2" publishedName="Lehman, F. M." />
    <seer:creator orderInOutput="3" publishedName="Pinker, H. J." />
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0008"/>
  </seer:staffCreators>
  <seer:journalOutlet eraJournalId="30525"/>
</seer:journalArticle>
```

EXAMPLE TWO—The following example shows a journal article where one of the assigned FoRs

is not an FoR identified in the ERA 2018 Submission Journal List, but that FoR has a discipline apportionment of 66% or higher. In this example, This will not generate an error.

```
<seer:journalArticle availableInOpenAccessRepository="false" yearPublished="2014"
extent="10 Pages" identifier="XXX" journalIssue="2" journalVolume="112">
  <seer:title nativeScript="Lesion Sites in Cases of Efferent Motor Aphasia" />
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1201" apportionment="34"/>
    <seer:discipline forGroupCode="1502" apportionment="66"/>
  </seer:disciplineAssignment>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Shinapak, T." />
    <seer:creator orderInOutput="2" publishedName="Lehman, F. M." />
    <seer:creator orderInOutput="3" publishedName="Pinker, H. J." />
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0008"/>
  </seer:staffCreators>
  <seer:journalOutlet eraJournalId="30533"/>
</seer:journalArticle>
```

BR114—Employed in Other Function

ID	Expression	Severity
BR114	The staff member who has employment status as '1' (employed) and whose function is listed as 'Other Function' must have his/her staff number associated with at least one research output.	Error

EXAMPLE ONE—The following example shows a researcher who is 'Employed' and whose Function is 'Other Function' and whose staff reference number is not associated with at least one research output. This will generate an **error**.

```
<seer:researcher staffReference="ERA0010" honorific="Dr" firstName="Clement"
middleName="Paul" lastName="Roche" employmentLevel="013" employmentStatus="1"
researcherFunction="C" totalFte="0.5">
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0899" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="Roche, C." />
  </seer:otherNames>
</seer:researcher>
```

```

        <seer:otherName publishedName="Roche, C. P."/>
        <seer:otherName publishedName="C. P. Roche"/>
    </seer:otherNames>
</seer:researcher>
<!--Assume that this is the only Research output submitted -->
<seer:journalArticle availableInOpenAccessRepository="false" yearPublished="2014" extent="32 pages"
journalIssue="7439" journalVolume="328">
    <seer:title nativeScript="Guess What's Coming for Dinner: Quick Patient Recovery
and Quality of Hospital Food - A Quantitative Study. "/>
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="1111" apportionment="100"/>
    </seer:disciplineAssignment>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Rhan, S. K."/>
        <seer:creator orderInOutput="2" publishedName="Contras, B."/>
        <seer:creator orderInOutput="3" publishedName="Dimitriev, M."/>
        <seer:creator orderInOutput="4" publishedName="Zetland, G."/>
        <seer:creator orderInOutput="5" publishedName="Clarence, B."/>
        <seer:creator orderInOutput="6" publishedName="Pinker, L."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0009"/>
    </seer:staffCreators>
    <seer:journalOutlet eraJournalId="13378"
</seer:journalArticle>

```

BR117—Valid Research Output Type

ID	Expression	Severity
BR117	The journal article submitted must be an eligible journal article as listed in the <i>ERA 2018 Submission Guidelines</i> and as per the bibliometric data provider's publication definition.	Error

This business rule uses the bibliographic information returned from the provider relating to a unique output identifier. Where the bibliographic information indicates a type of output which is unlikely to be eligible (for example, an obituary), an **error** is generated. Please see the *ERA 2018 Submission Guidelines* to determine the eligibility of research outputs for ERA.

BR118—Portfolio Repository Link

ID	Expression	Severity
BR118	If a portfolio is nominated for ERA peer review then an electronic location must be provided for each of the research items.	Error

EXAMPLE ONE—*The following example shows the correct way to submit portfolio items that are nominated for peer review, within a portfolio of work. If a portfolio of work is nominated for peer review, then every item within that portfolio must also provide a repository link.*

```
<seer:portfolio name="New Zealand as the Next Australian State?" portfolioNumber="01 "
isCulturallySensitive="true" sensitiveNote="The items in this portfolio must not be seen by Nationalist
extremist">
```

```
<seer:researchStatement>
```

```
    Research Portfolio Background;
```

```
    Research Portfolio Contribution;
```

```
    Research Portfolio Significance.
```

```
</seer:researchStatement>
```

```
<seer:disciplineAssignment>
```

```
    <seer:discipline forGroupCode="1901" apportionment="50"/>
```

```
    <seer:discipline forGroupCode="1902" apportionment="25"/>
```

```
    <seer:discipline forGroupCode="1903" apportionment="25"/>
```

```
</seer:disciplineAssignment>
```

```
<seer:nominatedPRDisciplines>
```

```
    <seer:nominatedPRDiscipline forGroupCode="1902"/>
```

```
    <seer:nominatedPRDiscipline forGroupCode="1903"/>
```

```
</seer:nominatedPRDisciplines>
```

```
<seer:portfolioRecordedOrRenderedWork availableInOpenAccessRepository="false"
yearPublished="2011" category="1" extent="CD" placeOfPublication="Sydney" issue="1"
media="digital" publisher="BCA Corporation" standardNumber="STD-123" volume="2"
yearPresented="2012" isTranslated="false">
```

```
    <seer:title nativeScript="Recorded and Rendered word"/>
```

```
<seer:electronicLocations>
```

```
    <seer:electronicLocation
```

```
        repositoryLink="https://closed.other.edu.au/digital/1905454946" />
```

```
</seer:electronicLocations>
```

```
<seer:creators>
```

```
    <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
```

```
</seer:creators>
```

```
<seer:staffCreators>
```

```

        <seer:staffCreator staffReference="ERA0014"/>
    </seer:staffCreators>
</seer:portfolioRecordedOrRenderedWork>
<seer:portfolioOriginalCreativeWork availableInOpenAccessRepository="false" extent="10000
words" yearPublished="2011" category="3" placeOfPublication="Sydney" media="textual work"
notes="The magazine in which it appeared: The Monthly, Issue 22, pages 11-18">
    <seer:title nativeScript="A Wolf In Sheep's Clothing"/>
    <seer:electronicLocations>
        <seer:electronicLocation
            repositoryLink="https://closed.other.edu.au/images/1905454846" />
    </seer:electronicLocations>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0014"/>
    </seer:staffCreators>
</seer:portfolioOriginalCreativeWork>
<seer:portfolioCuratedExhibitionOrEvent availableInOpenAccessRepository="false"
yearPublished="2011" category="2" extent="Painting" placeOfPublication="Canberra" >
    <seer:title nativeScript="Trip the Fantastic" />
    <seer:electronicLocations>
        <seer:electronicLocation
            repositoryLink="https://closed.other.edu.au/content/1915454846" />
    </seer:electronicLocations>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0014"/>
    </seer:staffCreators>
</seer:portfolioCuratedExhibitionOrEvent>
<seer:portfolioLivePerformance availableInOpenAccessRepository="false" yearPublished="2011"
category="2" extent="Live music show" laceOfPublication="Canberra Stadium" >
    <seer:title nativeScript="Country Music"/>
    <seer:electronicLocations>
        <seer:electronicLocation
            repositoryLink="https://closed.other.edu.au/recording/1907554846" />
    </seer:electronicLocations>

```

```

    <seer:creators>
      <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
    </seer:creators>
    <seer:staffCreators>
      <seer:staffCreator staffReference="ERA0014"/>
    </seer:staffCreators>
  </seer:portfolioLivePerformance>
</seer:portfolio>

```

EXAMPLE TWO—*The following example shows the incorrect way to submit portfolio items that are nominated for peer review, within a portfolio of work that has been nominated for ERA peer review. This will generate an **error**.*

```

<seer:portfolio name="New Zealand as the Next Australian State?" portfolioNumber="01"
isCulturallySensitive="true" sensitiveNote="The items in this portfolio must not be seen by Nationalist
extremist">

```

```

  <seer:researchStatement>
    Research Portfolio Background;
    Research Portfolio Contribution;
    Research Portfolio Significance.
  </seer:researchStatement>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1902" apportionment="25"/>
    <seer:discipline forGroupCode="1903" apportionment="25"/>
  </seer:disciplineAssignment>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1902"/>
    <seer:nominatedPRDiscipline forGroupCode="1903"/>
  </seer:nominatedPRDisciplines>
  <seer:portfolioRecordedOrRenderedWork availableInOpenAccessRepository="false"
yearPublished="2011" category="1" extent="CD" placeOfPublication="Sydney" issue="1"
media="digital" publisher="BCA Corporation" standardNumber="STD-123" volume="2"
yearPresented="2012" isTranslated="false">
    <seer:title nativeScript="Recorded and Rendered word"/>
    <seer:electronicLocations>
      <seer:electronicLocation
repositoryLink="https://closed.other.edu.au/digital/1905454946" />
    </seer:electronicLocations>
  </seer:portfolioRecordedOrRenderedWork>
</seer:portfolio>

```

```

        <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0014"/>
    </seer:staffCreators>
</seer:portfolioRecordedOrRenderedWork>
<seer:portfolioOriginalCreativeWork availableInOpenAccessRepository="false" extent="10000
words" yearPublished="2011" category="3" placeOfPublication="Sydney" media="textual work"
notes="The magazine in which it appeared: The Monthly, Issue 22, pages 11-18">
    <seer:title nativeScript="A Wolf In Sheep's Clothing"/>
    <!--Mission electronic location -->
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0014"/>
    </seer:staffCreators>
</seer:portfolioOriginalCreativeWork>
<seer:portfolioCuratedExhibitionOrEvent availableInOpenAccessRepository="false"
yearPublished="2011" category="2" extent="Painting" placeOfPublication="Canberra" >
    <seer:title nativeScript="Trip the Fantastic "/>
    <seer:electronicLocations>
        <seer:electronicLocation
            repositoryLink="https://closed.other.edu.au/content/1915454846" />
    </seer:electronicLocations>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0014"/>
    </seer:staffCreators>
</seer:portfolioCuratedExhibitionOrEvent>
<seer:portfolioLivePerformance availableInOpenAccessRepository="false" yearPublished="2011"
category="2" extent="Live music show" placeOfPublication="Canberra Stadium" >
    <seer:title nativeScript="Country Music"/>
    <seer:electronicLocations>
        <seer:electronicLocation
            repositoryLink="https://closed.other.edu.au/recording/1907554846" />

```

```

</seer:electronicLocations>
<seer:creators>
    <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
</seer:creators>
<seer:staffCreators>
    <seer:staffCreator staffReference="ERA0014"/>
</seer:staffCreators>
</seer:portfolioLivePerformance>
</seer:portfolio>

```

BR122—Year Published and Year Presented-Portfolio

ID	Expression	Severity
BR122	Each research item within a portfolio must have either the Year Published or Year Presented within the research output reference period (2011-2016).	Error

EXAMPLE ONE—*The following example shows a recorded/rendered creative work, with the Year Published and Year Presented outside the reference period (2011-2016). This will generate an error.*

```

<seer:portfolio name="New Zealand as the Next Australian State?" portfolioNumber="01"
isCulturallySensitive="true" sensitiveNote="The items in this portfolio must not be seen by Nationalist
extremist">
    <seer:researchStatement>
        Research Portfolio Background;
        Research Portfolio Contribution;
        Research Portfolio Significance.
    </seer:researchStatement>
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="1901" apportionment="50"/>
        <seer:discipline forGroupCode="1902" apportionment="25"/>
        <seer:discipline forGroupCode="1903" apportionment="25"/>
    </seer:disciplineAssignment>
    <seer:nominatedPRDisciplines>
        <seer:nominatedPRDiscipline forGroupCode="1902"/>
        <seer:nominatedPRDiscipline forGroupCode="1903"/>
    </seer:nominatedPRDisciplines>

```

```

<seer:portfolioRecordedOrRenderedWork availableInOpenAccessRepository="false"
yearPublished="2017" category="1" extent="CD" placeOfPublication="Sydney" issue="1"
media="digital" publisher="BCA Corporation" standardNumber="STD-123" volume="2"
yearPresented="2017" isTranslated="false">
  <seer:title nativeScript="Recorded and Rendered word"/>
  <seer:electronicLocations>
    <seer:electronicLocation
      repositoryLink="https://closed.other.edu.au/digital/1905454946" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0014"/>
  </seer:staffCreators>
</seer:portfolioRecordedOrRenderedWork>
<seer:portfolioOriginalCreativeWork availableInOpenAccessRepository="false" extent="10000
words" yearPublished="2011" category="3" placeOfPublication="Sydney" media="textual work"
notes="The magazine in which it appeared: The Monthly, Issue 22, pages 11-18">
  <seer:title nativeScript="A Wolf In Sheep's Clothing"/>
  <seer:electronicLocations>
    <seer:electronicLocation
      repositoryLink="https://closed.other.edu.au/images/1905454846" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0014"/>
  </seer:staffCreators>
</seer:portfolioOriginalCreativeWork>
<seer:portfolioCuratedExhibitionOrEvent availableInOpenAccessRepository="false"
yearPublished="2011" category="2" extent="Painting" placeOfPublication="Canberra" >
  <seer:title nativeScript="Trip the Fantastic" />
  <seer:electronicLocations>
    <seer:electronicLocation
      repositoryLink="https://closed.other.edu.au/content/1915454846" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>

```



```

    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0014"/>
    </seer:staffCreators>
</seer:portfolioCuratedExhibitionOrEvent>
    <seer:portfolioLivePerformance availableInOpenAccessRepository="false" yearPublished="2011"
category="2" extent="Live music show" placeOfPublication="Canberra Stadium" >
        <seer:title nativeScript="Country Music"/>
        <seer:electronicLocations>
            <seer:electronicLocation
repositoryLink="https://closed.other.edu.au/recording/1907554846" />
        </seer:electronicLocations>
        <seer:creators>
            <seer:creator orderInOutput="1" publishedName="Langhorne, J."/>
        </seer:creators>
        <seer:staffCreators>
            <seer:staffCreator staffReference="ERA0014"/>
        </seer:staffCreators>
    </seer:portfolioLivePerformance>
</seer:portfolio>

```

BR124—Individual ownership in Applied Measure

ID	Expression	Severity
BR124	If an applied measure is associated to an individual (Type '1') then a staff reference number must be provided.	Error

EXAMPLE ONE—The following example shows a Patent Family containing a patent owned by an eligible researcher without a staff reference number. This will generate an **error**.

```
<seer:patentFamily name="MOCVD precursors based on ganometalloid ligands"
appliedMeasureOwner="1">
  <seer:patent referenceYear="2015" registeredCountry="1" name="Mocvd precursors based on
ganometalloid ligands" number="AU 514000A"/>
  <seer:patent referenceYear="2014" registeredCountry="2" name="MOCVD precursors based on
ganometalloid ligands" number="US 6184403B1"/>
  <seer:patent referenceYear="2015" registeredCountry="3" name="MOCVD precursors based on
ganometalloid ligands" number="US 6359159B1"/>
  <seer:patent referenceYear="2016" registeredCountry="5" name="MOCVD PRECURSORS
BASED ON GANOMETALLOID LIGANDS" number="WO 0069863A1"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0306" apportionment="50"/>
    <seer:discipline forGroupCode="0307" apportionment="50"/>
  </seer:disciplineAssignment>
</seer:patentFamily>
```

EXAMPLE TWO—The following example shows correct submission of a Patent Family containing patents owned by an eligible researcher with a staff reference number.

```
<seer:patentFamily name="MOCVD precursors based on ganometalloid ligands"
appliedMeasureOwner="1">
  <seer:patent referenceYear="2014" registeredCountry="1" name="Mocvd precursors
based on ganometalloid ligands" number="AU 514000A"/>
  <seer:patent referenceYear="2014" registeredCountry="2" name="MOCVD precursors
based on ganometalloid ligands" number="US 6184403B1"/>
  <seer:patent referenceYear="2015" registeredCountry="3" name="MOCVD precursors
based on ganometalloid ligands" number="US 6359159B1"/>
  <seer:patent referenceYear="2016" registeredCountry="5" name="MOCVD
PRECURSORS BASED ON GANOMETALLOID LIGANDS" number="WO 0069863A1"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0306" apportionment="50"/>
    <seer:discipline forGroupCode="0307" apportionment="50"/>
  </seer:disciplineAssignment>
```

```
<seer:staffCreators>
  <seer:staffCreator staffReference="ERA0001"/>
</seer:staffCreators>
</seer:patentFamily>
```

EXAMPLE THREE—*The following example shows correct submission of a Patent Family containing patents owned by an institution where no staff reference number is required.*

```
<seer:patentFamily name="MOCVD precursors based on ganometalloid ligands"
  appliedMeasureOwner="2">
  <seer:patent referenceYear="2014" registeredCountry="1" name="Mocvd precursors
    based on ganometalloid ligands" number="AU 514000A"/>
  <seer:patent referenceYear="2014" registeredCountry="2" name="MOCVD precursors
    based on ganometalloid ligands" number="US 6184403B1"/>
  <seer:patent referenceYear="2015" registeredCountry="3" name="MOCVD precursors
    based on ganometalloid ligands" number="US 6359159B1"/>
  <seer:patent referenceYear="2016" registeredCountry="5" name="MOCVD
    PRECURSORS BASED ON GANOMETALLOID LIGANDS" number="WO 0069863A1"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0306" apportionment="50"/>
    <seer:discipline forGroupCode="0307" apportionment="50"/>
  </seer:disciplineAssignment>
</seer:patentFamily>
```

BR125—ERA Publisher ID

ID	Expression	Severity
BR125	For book and book chapter research output types, the ERA Publisher ID in the submission must match the ERA Publisher ID provided in the <i>ERA 2018 Submission Publisher List</i> .	Error

NOTE—The following publisher information is used for example in BR125 and BR137.

ERA Publisher ID	Name
1256	John Wiley & Sons
0000	Other

EXAMPLE ONE—The following example shows incorrect ERA Publisher ID. This will generate an **error**.

```
<seer:book availableInOpenAccessRepository="false" edition="1" placeOfPublication="Canberra,
Australia" yearPublished="2011" eraPublisherId="1250" isbn="978-8837652893" extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1901">
```

```

    <seer:nominatedPRDiscipline forGroupCode="1905">
  </seer:nominatedPRDisciplines>
</seer:book>

```

EXAMPLE TWO—The following example shows correct ERA Publisher ID. This will not generate an **error**.

```

<seer:book availableInOpenAccessRepository="false" edition="1" placeOfPublication="Canberra,
Australia" yearPublished="2014" eraPublisherId="1256" isbn="978-8837652893" extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1901">
    <seer:nominatedPRDiscipline forGroupCode="1905">
  </seer:nominatedPRDisciplines>
</seer:book>

```

BR126—ERA Conference ID

ID	Expression	Severity
BR126	The ERA Conference ID in the submission must match the ERA Conference ID provided in the <i>ERA 2018 Submission Conference List</i> .	Error

NOTE—The following Conference Series information is used in the example for BR126 and BR138.

ID	Title	Acronym
42260	Australasian Transport Research Forum	ATRF
42261	IEEE/RSJ International Conference on Intelligent Robots and Systems	IROS
42275	ACM Annual Computer Science Conference	MMVR
00000	Other	

EXAMPLE ONE—The following example shows incorrect ERA Conference ID. This will generate an **error**.

```
<seer:conferencePublication availableInOpenAccessRepository="true"
placeOfPublication="Sydney" yearPublished="2012" extent="200-225" publisher="IEEE Xplore">
  <seer:title nativeScript="Towards a Data Commons"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0899" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
      repositoryLink="https://repos1.other.edu.au/article/00207608-116-2-7" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Humphries, R"/>
    <seer:creator orderInOutput="2" publishedName="Roche, C. P. "/>
    <seer:creator orderInOutput="3" publishedName="Yen, X."/>
    <seer:creator orderInOutput="4" publishedName="Pierce, T. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0010"/>
  </seer:staffCreators>
  <seer:institutionalUnits>
    <seer:institutionalUnit code="SIS" name="School of Information Sciences,
      University of Australian Studies, Griffith Avenue, Parkes"/>
  </seer:institutionalUnits>
  <seer:nominatedPRDisciplines>
```

```

        <seer:nominatedPRDiscipline forGroupCode="0899"/>
    </seer:nominatedPRDisciplines>
    <seer:conferencePublicationOutlet eraConferenceId="42255" venue="Sydney, Australia ">
        <seer:title nativeScript="Proceedings - 2012 Digital Archives and Digital
            Humanities Conference"/>
    </seer:conferencePublicationOutlet>
</seer:conferencePublication>

```

EXAMPLE TWO—*The following example shows correct ERA Conference ID. This will not generate an **error**.*

```

<seer:conferencePublication availableInOpenAccessRepository="true"
    placeOfPublication="Sydney" yearPublished="2012" extent="200-225" publisher="IEEE Xplore">
    <seer:title nativeScript="Towards a Data Commons"/>
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="0899" apportionment="100"/>
    </seer:disciplineAssignment>
    <seer:electronicLocations>
        <seer:electronicLocation
            repositoryLink="https://repos1.other.edu.au/article/00207608-116-2-7" />
    </seer:electronicLocations>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Humphries, R"/>
        <seer:creator orderInOutput="2" publishedName="Roche, C. P. "/>
        <seer:creator orderInOutput="3" publishedName="Yen, X."/>
        <seer:creator orderInOutput="4" publishedName="Pierce, T. L."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0010"/>
    </seer:staffCreators>
    <seer:institutionalUnits>
        <seer:institutionalUnit code="SIS" name="School of Information Sciences,
            University of Australian Studies, Griffith Avenue, Parkes"/>
    </seer:institutionalUnits>
    <seer:nominatedPRDisciplines>
        <seer:nominatedPRDiscipline forGroupCode="0899"/>
    </seer:nominatedPRDisciplines>
    <seer:conferencePublicationOutlet eraConferenceId="42260" venue="Sydney, Australia ">
        <seer:title nativeScript="Proceedings - 2012 Digital Archives and Digital
            Humanities Conference"/>

```

</seer:conferencePublicationOutlet>
 </seer:conferencePublication>

BR132—Reassignment Exception for Journal Outputs

ID	Expression	Severity
BR132	The reassignment exception must not be used to move more than 40% of the apportioned journal articles into a single UoE.	Warning

The reassignment of the journal article publication research output types are permitted outside the FoR codes assigned in the ERA 2018 Submission Journal List. However, if 40% or more of publications are reassigned into a particular UoE, this will generate a **warning**.

BR133—Research Income Consistency with HERDC data

ID	Expression	Severity
BR133	The total research income for Category 1, 2, 3 and 4 reported per year must be within a plus or minus 10% range in comparison to the HERDC data collection.	Warning

EXAMPLE ONE—The snippet below shows the value of research income by year for Category 2 income. The highlighted income values will be used to cross check with the HERDC data collection. This rule will be applied to all four categories of research income. The differences between the data submitted to ERA and the HERDC data collection must be within plus or minus 10%.

```
<seer:otherPublicSectorIncome>
  <seer:otherIncomeYears>
    <seer:otherIncomeYear totalAmountReceived="1968150" referenceYear="2014">
      <seer:incomeDisciplineAssignment apportionment="0.91"/>
        <seer:discipline forGroupCode="1104" apportionment="20"/>
        <seer:discipline forGroupCode="1106" apportionment="20"/>
        <seer:discipline forGroupCode="1110" apportionment="20"/>
        <seer:discipline forGroupCode="1117" apportionment="20"/>
        <seer:discipline forGroupCode="1199" apportionment="20"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
    <seer:otherIncomeYear totalAmountReceived="1968150" referenceYear="2015">
      <seer:incomeDisciplineAssignment>
        <seer:discipline forGroupCode="0201" apportionment="20"/>
      </seer:incomeDisciplineAssignment>
    </seer:otherIncomeYear>
  </seer:otherIncomeYears>
</seer:otherPublicSectorIncome>
```



```

        <seer:discipline forGroupCode="1702" apportionment="20"/>
        <seer:discipline forGroupCode="1110" apportionment="20"/>
        <seer:discipline forGroupCode="1117" apportionment="20"/>
        <seer:discipline forGroupCode="1199" apportionment="20"/>
    </seer:incomeDisciplineAssignment>
</seer:otherIncomeYear>
<seer:otherIncomeYear totalAmountReceived="1968150" referenceYear="2016">
    <seer:incomeDisciplineAssignment>
        <seer:discipline forGroupCode="0201" apportionment="25"/>
        <seer:discipline forGroupCode="0202" apportionment="25"/>
        <seer:discipline forGroupCode="0903" apportionment="25"/>
        <seer:discipline forGroupCode="0904" apportionment="25"/>
    </seer:incomeDisciplineAssignment>
</seer:otherIncomeYear>
</seer:otherIncomeYears>
</seer:otherPublicSectorIncome>

```

BR134—Author name reported against Research Output

ID	Expression	Severity
BR134	The published name of the 'staff creator' must appear on the research output 'creator' list.	Warning

EXAMPLE ONE—*The example below shows the researcher who is a staff creator of a research output. However, the published name of the researcher does not appear in the creator list in the research output. This will generate a **warning**.*

```

<seer:researcher staffReference="ERA0001" honorific="Associate Professor" firstName="Nathan"
middleName="Liam" lastName="Wilcott" employmentLevel="013" employmentStatus="1"
researcherFunction="B" totalFte="0.5" gender="Male">
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="0206" apportionment="40"/>
        <seer:discipline forGroupCode="0306" apportionment="40"/>
        <seer:discipline forGroupCode="0307" apportionment="20"/>
    </seer:disciplineAssignment>
</seer:otherNames>
    <seer:otherName publishedName="Wilcott, Nathan"/>
    <seer:otherName publishedName="Wilcott, Nathan L."/>
    <seer:otherName publishedName="N. L. Wilcott"/>

```

```

    </seer:otherNames>
  </seer:researcher>
<!--Research output -->
<seer:journalArticle availableInOpenAccessRepository="true" identifier="XXX" journalVolume="74"
journalIssue="2" yearPublished="2011" placeOfPublication="New York" extent="pages 553-541">
  <seer:title nativeScript="Beyond the Brink: A New Quantum Perspective"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
      repositoryLink="https://repos1.other.edu.au/article/00207608-106-2-7" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Amaretti, G"/>
    <seer:creator orderInOutput="2" publishedName="Wilcott, N. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0001"/>
  </seer:staffCreators>
  <seer:journalOutlet eraJournalId="944"/>
</seer:journalArticle>

```

EXAMPLE TWO—*The example below shows a researcher who is a staff creator of a research output. The published name of the researcher also correctly appears in the creator list in the research output. This will not generate a **warning**.*

```

<seer:researcher staffReference="ERA0001" honorific="Associate Professor" firstName="Nathan"
middleName="Liam" lastName="Wilcott" employmentLevel="013" employmentStatus="1"
researcherFunction="B" totalFte="0.5" gender="Male">
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0206" apportionment="40"/>
    <seer:discipline forGroupCode="0306" apportionment="40"/>
    <seer:discipline forGroupCode="0307" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:otherNames>
    <seer:otherName publishedName="Wilcott, Nathan"/>
    <seer:otherName publishedName="Wilcott, Nathan L."/>
    <seer:otherName publishedName="N. L. Wilcott"/>
  </seer:otherNames>
</seer:researcher>

```

```

        <seer:otherName publishedName="Wilcott, N. L."/>
    </seer:otherNames>
</seer:researcher>
<!--Research output -->
<seer:journalArticle availableInOpenAccessRepository="true" identifier="XXX" journalVolume="74"
journalIssue="2" yearPublished="2011" placeOfPublication="New York" extent="pages 553-541">
<seer:title nativeScript="Beyond the Brink: A New Quantum Perspective"/>
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="0206" apportionment="100"/>
    </seer:disciplineAssignment>
<seer:electronicLocations>
    <seer:electronicLocation
        repositoryLink="https://repos1.other.edu.au/article/00207608-106-2-7" />
</seer:electronicLocations>
<seer:creators>
    <seer:creator orderInOutput="1" publishedName="Amaretti, G"/>
    <seer:creator orderInOutput="2" publishedName="Wilcott, N. L."/>
</seer:creators>
<seer:staffCreators>
    <seer:staffCreator staffReference="ERA0001"/>
</seer:staffCreators>
<seer:journalOutlet eraJournalId="944"/>
</seer:journalArticle>

```

BR137—ERA Publisher ID “Other”

ID	Expression	Severity
BR137	If the ERA Publisher ID in submission matches the ERA Publisher ID of ‘Other’, the publisher information must be provided.	Error

NOTE—The following publisher information is used for example in BR125, BR137 and BR140.

ERA Publisher ID	Name
1256	John Wiley & Sons
0000	Other

EXAMPLE ONE—The following example shows ERA Publisher ID of ‘Other’ publisher without providing the publisher information. This will generate an **error**.

```
<seer:book availableInOpenAccessRepository="true" edition="1" placeOfPublication="Canberra,
Australia" yearPublished="2012" eraPublisherId="0000" isbn="978-8837652893" extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1901">
```

```

    <seer:nominatedPRDiscipline forGroupCode="1905">
  </seer:nominatedPRDisciplines>
</seer:book>

```

EXAMPLE TWO—The following example shows ERA Publisher ID of ‘Other’ publisher with the publisher information. This will not generate an **error**.

```

<seer:book availableInOpenAccessRepository="true" edition="1" placeOfPublication="Canberra,
Australia" yearPublished="2012" eraPublisherId="0000" publisherOther="W. W. Norton & Company"
isbn="978-8837652893" extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1901">
    <seer:nominatedPRDiscipline forGroupCode="1905">
  </seer:nominatedPRDisciplines>
</seer:book>

```

BR138—ERA Conference “Other”

ID	Expression	Severity
BR138	If the ERA Conference ID in submission matches the ERA Conference ID of ‘Other’, the conference series name must be provided.	Error

NOTE—The following Conference Series information is used in the example for BR126, BR138, BR128, BR129 and BR141.

ID	Title	Acronym
42260	Australasian Transport Research Forum	ATRF
42261	IEEE/RSJ International Conference on Intelligent Robots and Systems	IROS
42275	ACM Annual Computer Science Conference	MMVR
00000	Other	

EXAMPLE ONE—The following example shows ERA Conference ID of ‘Other’ without providing the conference series name information. This will generate an **error**.

```
<seer:conferencePublication availableInOpenAccessRepository="true"
placeOfPublication="Sydney" yearPublished="2012" extent="200-225" publisher="IEEE Xplore">
  <seer:title nativeScript="Towards a Data Commons"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0899" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
      repositoryLink="https://repos1.other.edu.au/article/00207608-116-2-7" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Humphries, R"/>
    <seer:creator orderInOutput="2" publishedName="Roche, C. P. "/>
    <seer:creator orderInOutput="3" publishedName="Yen, X."/>
    <seer:creator orderInOutput="4" publishedName="Pierce, T. L."/>
  </seer:creators>
  <seer:staffCreators>
```

```

        <seer:staffCreator staffReference="ERA0010"/>
    </seer:staffCreators>
    <seer:institutionalUnits>
        <seer:institutionalUnit code="SIS" name="School of Information Sciences,
        University of Australian Studies, Griffith Avenue, Parkes"/>
    </seer:institutionalUnits>
    <seer:nominatedPRDisciplines>
        <seer:nominatedPRDiscipline forGroupCode="0899"/>
    </seer:nominatedPRDisciplines>
    <seer:conferencePublicationOutlet eraConferenceId="00000" venue="Sydney, Australia ">
        <seer:title nativeScript="Proceedings - 2012 Digital Archives and Digital
        Humanities Conference"/>
    </seer:conferencePublicationOutlet>
</seer:conferencePublication>

```

EXAMPLE TWO—*The following example shows correct ERA Conference ID. This will not generate an **error**.*

```

<seer:conferencePublication availableInOpenAccessRepository="true"
placeOfPublication="Sydney" yearPublished="2012" extent="200-225" publisher="IEEE Xplore">
    <seer:title nativeScript="Towards a Data Commons"/>
    <seer:disciplineAssignment>
        <seer:discipline forGroupCode="0899" apportionment="100"/>
    </seer:disciplineAssignment>
    <seer:electronicLocations>
        <seer:electronicLocation
            repositoryLink="https://repos1.other.edu.au/article/00207608-116-2-7" />
    </seer:electronicLocations>
    <seer:creators>
        <seer:creator orderInOutput="1" publishedName="Humphries, R"/>
        <seer:creator orderInOutput="2" publishedName="Roche, C. P. "/>
        <seer:creator orderInOutput="3" publishedName="Yen, X."/>
        <seer:creator orderInOutput="4" publishedName="Pierce, T. L."/>
    </seer:creators>
    <seer:staffCreators>
        <seer:staffCreator staffReference="ERA0010"/>
    </seer:staffCreators>
    <seer:institutionalUnits>
        <seer:institutionalUnit code="SIS" name="School of Information Sciences,
        University of Australian Studies, Griffith Avenue, Parkes"/>
    </seer:institutionalUnits>
</seer:conferencePublication>

```

```

</seer:institutionalUnits>
<seer:nominatedPRDisciplines>
  <seer:nominatedPRDiscipline forGroupCode="0899"/>
</seer:nominatedPRDisciplines>
<seer:conferencePublicationOutlet eraConferenceId="00000" conferenceOther="Joint
Computer Science and Engineering Innovation conference" venue="Sydney, Australia ">
  <seer:title nativeScript="Proceedings - 2012 Digital Archives and Digital
Humanities Conference"/>
</seer:conferencePublicationOutlet>
</seer:conferencePublication>

```

BR140—No duplication of publisher name

ID	Expression	Severity
BR140	The institution has provided the name of a publisher that is already on the publisher list.	Error

EXAMPLE ONE—*The following example shows ERA Publisher ID of ‘Other’ publisher with the publisher information that is already on the publisher list. This will generate an **error**.*

```

<seer:book availableInOpenAccessRepository="true" edition="1" placeOfPublication="Canberra,
Australia" yearPublished="2012" eraPublisherId="0000" publisherOther="John Wiley & Sons" isbn="978-
8837652893" extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>

```



```

</seer:staffCreators>
<seer:nominatedPRDisciplines>
  <seer:nominatedPRDiscipline forGroupCode="1901">
  <seer:nominatedPRDiscipline forGroupCode="1905">
</seer:nominatedPRDisciplines>
</seer:book>

```

EXAMPLE TWO—*The following example shows ERA Publisher ID of ‘Other’ publisher with the publisher information. This will not generate an **error**.*

```

<seer:book availableInOpenAccessRepository="true" edition="1" placeOfPublication="Canberra,
Australia" yearPublished="2012" eraPublisherId="0000" publisherOther="W. W. Norton & Company"
isbn="978-8837652893" extent="146 pages">
  <seer:title nativeScript="Post-Art: A Postmodern Approach to Visual Art Education"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="1901" apportionment="50"/>
    <seer:discipline forGroupCode="1905" apportionment="30"/>
    <seer:discipline forGroupCode="1302" apportionment="20"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation repositoryLink="https://repos2.other.edu.au/book/978-
0937652893" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Efland, A."/>
    <seer:creator orderInOutput="2" publishedName="Freedman, K."/>
    <seer:creator orderInOutput="3" publishedName="LaMont, S. B."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0003"/>
  </seer:staffCreators>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="1901">
    <seer:nominatedPRDiscipline forGroupCode="1905">
  </seer:nominatedPRDisciplines>
</seer:book>

```

BR141—No duplication of conference name

ID	Expression	Severity
BR141	The institution provides the name of a conference that is already on the conference list.	Error

EXAMPLE ONE—The following example shows ERA Conference ID of ‘Other’ with the conference series name information that is already on the conference list. This will generate an error.

```
<seer:conferencePublication availableInOpenAccessRepository="true"
placeOfPublication="Sydney" yearPublished="2012" extent="200-225" publisher="IEEE Xplore">
  <seer:title nativeScript="Towards a Data Commons"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0899" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
      repositoryLink="https://repos1.other.edu.au/article/00207608-116-2-7" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Humphries, R"/>
    <seer:creator orderInOutput="2" publishedName="Roche, C. P. "/>
    <seer:creator orderInOutput="3" publishedName="Yen, X."/>
    <seer:creator orderInOutput="4" publishedName="Pierce, T. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0010"/>
  </seer:staffCreators>
  <seer:institutionalUnits>
    <seer:institutionalUnit code="SIS" name="School of Information Sciences,
      University of Australian Studies, Griffith Avenue, Parkes"/>
  </seer:institutionalUnits>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="0899"/>
  </seer:nominatedPRDisciplines>
  <seer:conferencePublicationOutlet eraConferenceId="00000" conferenceOther="
Australasian Transport Research Forum" venue="Sydney, Australia ">
    <seer:title nativeScript="Proceedings - 2012 Digital Archives and Digital
      Humanities Conference"/>
```

```
</seer:conferencePublicationOutlet>
</seer:conferencePublication>
```

EXAMPLE TWO—*The following example shows correct ERA Conference ID. This will not generate an error.*

```
<seer:conferencePublication availableInOpenAccessRepository="true"
placeOfPublication="Sydney" yearPublished="2012" extent="200-225" publisher="IEEE Xplore">
  <seer:title nativeScript="Towards a Data Commons"/>
  <seer:disciplineAssignment>
    <seer:discipline forGroupCode="0899" apportionment="100"/>
  </seer:disciplineAssignment>
  <seer:electronicLocations>
    <seer:electronicLocation
      repositoryLink="https://repos1.other.edu.au/article/00207608-116-2-7" />
  </seer:electronicLocations>
  <seer:creators>
    <seer:creator orderInOutput="1" publishedName="Humphries, R"/>
    <seer:creator orderInOutput="2" publishedName="Roche, C. P. "/>
    <seer:creator orderInOutput="3" publishedName="Yen, X."/>
    <seer:creator orderInOutput="4" publishedName="Pierce, T. L."/>
  </seer:creators>
  <seer:staffCreators>
    <seer:staffCreator staffReference="ERA0010"/>
  </seer:staffCreators>
  <seer:institutionalUnits>
    <seer:institutionalUnit code="SIS" name="School of Information Sciences,
      University of Australian Studies, Griffith Avenue, Parkes"/>
  </seer:institutionalUnits>
  <seer:nominatedPRDisciplines>
    <seer:nominatedPRDiscipline forGroupCode="0899"/>
  </seer:nominatedPRDisciplines>
  <seer:conferencePublicationOutlet eraConferenceId="00000" conferenceOther="Joint
  Computer Science and Engineering Innovation conference" venue="Sydney, Australia ">
    <seer:title nativeScript="Proceedings - 2012 Digital Archives and Digital
      Humanities Conference"/>
  </seer:conferencePublicationOutlet>
```

BR142—No duplication of Grant ID

ID	Expression	Severity
BR142	The Grant ID issued by the funding body must be unique to the program.	Warning

EXAMPLE ONE—The following example shows two different Australian competitive grants from the same program with duplicate Grant ID. This will generate a warning.

```

<seer:australianCompetitiveGrants>
  <seer:australianCompetitiveGrant grantId="ABC1234/2013"
    percentageOfGrantWithinRefPeriod="66.00">
    <seer:incomeYears>
      <seer:incomeYear acgrCode="FND2014_122" referenceYear="2014"
        totalAmountReceived="100000">
        <seer:incomeDisciplineAssignment>
          <seer:discipline apportionment="40" forGroupCode="0201"/>
          <seer:discipline apportionment="20" forGroupCode="0202"/>
          <seer:discipline apportionment="10" forGroupCode="0203"/>
          <seer:discipline apportionment="20" forGroupCode="0204"/>
          <seer:discipline apportionment="10" forGroupCode="2299"/>
        </seer:incomeDisciplineAssignment>
      </seer:incomeYear>
      <seer:incomeYear acgrCode="FND2015_139" referenceYear="2015"
        totalAmountReceived="75000">
        <seer:incomeDisciplineAssignment>
          <seer:discipline apportionment="50" forGroupCode="0204"/>
          <seer:discipline apportionment="50" forGroupCode="0205"/>
        </seer:incomeDisciplineAssignment>
      </seer:incomeYear>
    </seer:incomeYears>
  </seer:australianCompetitiveGrant>
  <seer:australianCompetitiveGrant grantId="ABC1234/2013"
    percentageOfGrantWithinRefPeriod="66.00">
    <seer:incomeYears>
      <seer:incomeYear acgrCode="FND2014_122" referenceYear="2014"
        totalAmountReceived="100000">
        <seer:incomeDisciplineAssignment>
          <seer:discipline apportionment="40" forGroupCode="0201"/>
          <seer:discipline apportionment="20" forGroupCode="0202"/>

```

```

        <seer:discipline apportionment="10" forGroupCode="0203"/>
        <seer:discipline apportionment="20" forGroupCode="0204"/>
        <seer:discipline apportionment="10" forGroupCode="2299"/>
    </seer:incomeDisciplineAssignment>
</seer:incomeYear>
<seer:incomeYear acgrCode="FND2015_139" referenceYear="2015"
totalAmountReceived="75000">
    <seer:incomeDisciplineAssignment>
        <seer:discipline apportionment="50" forGroupCode="0204"/>
        <seer:discipline apportionment="50" forGroupCode="0205"/>
    </seer:incomeDisciplineAssignment>
</seer:incomeYear>
</seer:incomeYears>
</seer:australianCompetitiveGrant>
</seer:australianCompetitiveGrants>

```

EXAMPLE TWO—The following example shows two different Australian competitive grants from the same program with unique Grant ID for each grant. This will not generate a **warning**.

```

<seer:australianCompetitiveGrants>
    <seer:australianCompetitiveGrant grantId="ABC1234/2013"
percentageOfGrantWithinRefPeriod="66.00">
        <seer:incomeYears>
            <seer:incomeYear acgrCode="FND2014_122" referenceYear="2014"
totalAmountReceived="100000">
                <seer:incomeDisciplineAssignment>
                    <seer:discipline apportionment="40" forGroupCode="0201"/>
                    <seer:discipline apportionment="20" forGroupCode="0202"/>
                    <seer:discipline apportionment="10" forGroupCode="0203"/>
                    <seer:discipline apportionment="20" forGroupCode="0204"/>
                    <seer:discipline apportionment="10" forGroupCode="2299"/>
                </seer:incomeDisciplineAssignment>
            </seer:incomeYear>
            <seer:incomeYear acgrCode="FND2015_139" referenceYear="2015"
totalAmountReceived="75000">
                <seer:incomeDisciplineAssignment>
                    <seer:discipline apportionment="50" forGroupCode="0204"/>
                    <seer:discipline apportionment="50" forGroupCode="0205"/>
                </seer:incomeDisciplineAssignment>
            </seer:incomeYear>
        </seer:incomeYears>
    </seer:australianCompetitiveGrant>
</seer:australianCompetitiveGrants>

```

```

        </seer:incomeYears>
    </seer:australianCompetitiveGrant>
    <seer:australianCompetitiveGrant grantId="ABC2225/2013"
    percentageOfGrantWithinRefPeriod="66.00">
        <seer:incomeYears>
            <seer:incomeYear acgrCode="FND2014_122" referenceYear="2014"
            totalAmountReceived="100000">
                <seer:incomeDisciplineAssignment>
                    <seer:discipline apportionment="40" forGroupCode="0201"/>
                    <seer:discipline apportionment="20" forGroupCode="0202"/>
                    <seer:discipline apportionment="10" forGroupCode="0203"/>
                    <seer:discipline apportionment="20" forGroupCode="0204"/>
                    <seer:discipline apportionment="10" forGroupCode="2299"/>
                </seer:incomeDisciplineAssignment>
            </seer:incomeYear>
            <seer:incomeYear acgrCode="FND2015_139" referenceYear="2015"
            totalAmountReceived="75000">
                <seer:incomeDisciplineAssignment>
                    <seer:discipline apportionment="50" forGroupCode="0204"/>
                    <seer:discipline apportionment="50" forGroupCode="0205"/>
                </seer:incomeDisciplineAssignment>
            </seer:incomeYear>
        </seer:incomeYears>
    </seer:australianCompetitiveGrant>
</seer:australianCompetitiveGrants>

```

BR143—Funding schemes are not the same for the grant

ID	Expression	Severity
BR143	The institution has provided different funding organisations for the same grant.	Warning

EXAMPLE ONE—The following example shows different organisations funding for the same grant. This will generate a **warning**.

```

    <australianCompetitiveGrants>
    <australianCompetitiveGrant grantId="ide12345" percentageOfGrantWithinRefPeriod="33.33">
        <incomeYears>
            <incomeYear acgrCode="FND2014_002" referenceYear="2014" totalAmountReceived="50000">
                <incomeDisciplineAssignment>

```

```

    <discipline apportionment="50" forGroupCode="0305"/>
    <discipline apportionment="50" forGroupCode="1201"/>
  </incomeDisciplineAssignment>
</incomeYear>
</incomeYears>
</australianCompetitiveGrant>
<australianCompetitiveGrant grantId="ide1235" percentageOfGrantWithinRefPeriod="100">
  <incomeYears>
<incomeYear acgrCode="FND2015_015" referenceYear="2015" totalAmountReceived="100000">
  <incomeDisciplineAssignment>
    <discipline apportionment="40" forGroupCode="0201"/>
    <discipline apportionment="60" forGroupCode="0202"/>
  </incomeDisciplineAssignment>
  </incomeYear>
</incomeYears>
</australianCompetitiveGrant>

```

EXAMPLE TWO—*The following example shows same funding organisation for a grant. This will not generate a **warning**.*

```

  <australianCompetitiveGrants>
<australianCompetitiveGrant grantId="ide12345" percentageOfGrantWithinRefPeriod="33.33">
  <incomeYears>
<incomeYear acgrCode="FND2014_012" referenceYear="2014" totalAmountReceived="50000">
  <incomeDisciplineAssignment>
    <discipline apportionment="50" forGroupCode="0305"/>
    <discipline apportionment="50" forGroupCode="1201"/>
  </incomeDisciplineAssignment>
  </incomeYear>
</incomeYears>
</australianCompetitiveGrant>
<australianCompetitiveGrant grantId="ide12365" percentageOfGrantWithinRefPeriod="100">
  <incomeYears>
<incomeYear acgrCode="FND2015_015" referenceYear="2015" totalAmountReceived="100000">
  <incomeDisciplineAssignment>
    <discipline apportionment="40" forGroupCode="0201"/>
    <discipline apportionment="60" forGroupCode="0202"/>
  </incomeDisciplineAssignment>

```

```

    </incomeYear>
    </incomeYears>
</australianCompetitiveGrant>

```

BR144—Unique patent family names

ID	Expression	Severity
BR144	The institution has provided the same patent family name with different patents	Error

EXAMPLE ONE—*The following example shows same patent family name. This will generate an error.*

```

<patentFamily name="Multi-plate thin film carbon monoxide sensor" appliedMeasureOwner="2">
<patent referenceYear="2014" registeredCountry="2" name="Multi-plate thin film carbon monoxide sensor"
number="US 5691465"/>
  <disciplineAssignment>
    <discipline forGroupCode="0305" apportionment="50"/>
    <discipline forGroupCode="0307" apportionment="50"/>
  </disciplineAssignment>
</patentFamily>
<patentFamily name="Multi-plate thin film carbon monoxide sensor" appliedMeasureOwner="1">
<patent referenceYear="2014" registeredCountry="1" name="Mocvd precursors based on ganometalloid
ligands" number="AU 514000A"/>
  <disciplineAssignment>
    <discipline forGroupCode="0306" apportionment="50"/>
    <discipline forGroupCode="0307" apportionment="50"/>
  </disciplineAssignment>
  <staffCreators>
    <staffCreator staffReference="ERA0001"/>
  </staffCreators>
</patentFamily>

```


EXAMPLE TWO—The following example shows unique patent family names. This will not generate an **error**.

```
<patentFamily name="Multi-plate thin film carbon monoxide sensor" appliedMeasureOwner="2">
<patent referenceYear="2014" registeredCountry="2" name="Multi-plate thin film carbon monoxide sensor"
number="US 5691465"/>
  <disciplineAssignment>
    <discipline forGroupCode="0305" apportionment="50"/>
    <discipline forGroupCode="0307" apportionment="50"/>
  </disciplineAssignment>
</patentFamily>
patentFamily name="Mocvd precursors based on ganometalloid ligands" appliedMeasureOwner="1">
<patent referenceYear="2014" registeredCountry="1" name="Mocvd precursors based on ganometalloid
ligands" number="AU 514000A"/>
  <disciplineAssignment>
    <discipline forGroupCode="0306" apportionment="50"/>
    <discipline forGroupCode="0307" apportionment="50"/>
  </disciplineAssignment>
</patentFamily>
```

BR145—Unique plant breeders rights family names

ID	Expression	Severity
BR145	The institution has provided the same plant breeders rights family name for different plant breeders rights	Error

EXAMPLE ONE—The following example shows same plant breeders rights family name. This will generate an **error**.

```
<plantBreedersRightsFamily name="Rosaceae" appliedMeasureOwner="1">
<plantBreedersRights referenceYear="2014" countryOfRegistration="1101" name="Lynothamnus"
number="2006/075"/>
  <plantBreedersRights referenceYear="2014" countryOfRegistration="8104" name="Filipendula"
number="009100220"/>
    <disciplineAssignment>
      <discipline forGroupCode="0607" apportionment="50"/>
      <discipline forGroupCode="0604" apportionment="50"/>
    </disciplineAssignment>
</plantBreedersRightsFamily>
<plantBreedersRightsFamily name="Rosaceae" appliedMeasureOwner="2">
```

```

    <plantBreederRights referenceYear="2014" countryOfRegistration="6201" name="Hosta capitata"
    number="545464"/>
      <disciplineAssignment>
        <discipline forGroupCode="0607" apportionment="100"/>
      </disciplineAssignment>
    </plantBreederRightsFamily>

```

EXAMPLE TWO—*The following example shows unique plant breeders right family names. This will not generate an **error**.*

```

<plantBreederRightsFamily name="Rosaceae" appliedMeasureOwner="1">
  <plantBreederRights referenceYear="2014" countryOfRegistration="1101" name="Lynothamnus"
  number="2006/075"/>
    <plantBreederRights referenceYear="2014" countryOfRegistration="8104" name="Filipendula"
    number="009100220"/>
      <disciplineAssignment>
        <discipline forGroupCode="0607" apportionment="50"/>
        <discipline forGroupCode="0604" apportionment="50"/>
      </disciplineAssignment>
    </plantBreederRightsFamily>
  <plantBreederRightsFamily name="Agavaceae" appliedMeasureOwner="2">
    <plantBreederRights referenceYear="2014" countryOfRegistration="6201" name="Hosta capitata"
    number="545464"/>
      <disciplineAssignment>
        <discipline forGroupCode="0607" apportionment="100"/>
      </disciplineAssignment>
    </plantBreederRightsFamily>

```

Peer Review Calculation

For ERA 2018, institutions will be able to nominate a research output for ERA peer review in any one or more of the three FoR codes to which that research output has been assigned.

An institution must nominate 30% of all the research outputs in a given unit of evaluation. The 30% proportion also applies to each research output type (i.e., books, book chapters, journal articles, conference papers and non-traditional research outputs). Institutions must also provide the sample for all low volume FoRs.

The calculation is determined by the sum of all of the apportioned research outputs in a submitted research output type within that unit of evaluation¹, and subsequently establishing what 30% of that sum is. The result is always rounded up to a whole number, which will equal the number of research outputs that must be nominated for ERA peer review in that research output type.

When calculating the number of research outputs for each sample, institutions must round up all fractions to the next number. For example, an institution submits 31 conference papers for a four-digit FoR. When nominating the 30 per cent sample, the institution must nominate 10 conference papers ($30\% \times 31 = 9.3$, rounded up to 10).

When the number of a particular research output type is greater than zero, institutions must provide at least one research output for peer review.

The total sample required for each four-digit FoR is the sum of the sample for each research type within the FoR. This may mean that sometimes the total sample for an FoR is greater than 30 per cent.

The table below shows how peer review nomination could work for a four-digit FoR. Note that the table does not list all possible research outputs types.

¹ Please note that when determining the sum of all apportioned research outputs, books are not weighted.

Peer Review Samples for Each Research Output Type

	Book	Journal Article	Conference Paper	NTRO	Total Research Outputs
Research volume	10.00	26.66	31.00	0.7	68.36
Peer Review sample (number of outputs)	3	8	10	1	22
Peer review sample (% required of research volume)	30% (rounded up to the next integer)	30% (rounded up to the next integer)	30% (rounded up to the next integer)	30% (rounded up to the next integer)	Greater than 30%

See the *ERA 2018 Submission Guidelines* for further requirements.

Duplicate Resolution

This section addresses the criteria for duplication checking based on the bibliographic information submitted by institutions. For each research output an algorithm checks to make sure that the research output is unique within the submission file. SEER will create a warning message for the research output deemed to be duplicated with one or more of the other research output(s) in the same submission file. The institution will be able to acknowledge the warning and accept and rectify the submission, or to ignore the warning message and progress to the next stage of the submission process.

If the warning message remains, the ARC will review each individual issue and make a further decision during the data integrity checking phase of the ERA 2018 submission process. If in doubt, the ARC may ask an institution to provide an explanation as to why particular research outputs should not be seen as a duplicated record.

Indexed Journal Article

Duplicated indexed journal articles will have an effect on the citation analysis, volume and activity indicators and frequency table. Indexed journal articles have a unique electronic identifier; therefore, the submission data must be uniquely submitted. SEER performs this check during submission XML file validation at the beginning of the submission process.

Other duplication checks

Deduplication of research outputs will have an impact upon the volume and activity indicators, and the frequency table. Based on research output type, the data fields used for identifying duplicated records are in the table below:

Output Type	Data fields	Rules identifier
Journal Article	<ul style="list-style-type: none"> ● Native script ● Creator(s) ● Staff creator(s) ● Issue ● Volume ● ERA Journal ID 	JAW
Book	<ul style="list-style-type: none"> ● Native script ● Creators ● Staff creator(s) ● Place of publication ● Publisher Name ● ISBN 	BOW
Book chapter	<ul style="list-style-type: none"> ● Native script (Book chapter) ● Creator(s) ● Staff creator(s) ● Place of publication ● Publisher Name ● Native script (Book) ● ISBN 	BCW
Conference Publication	<ul style="list-style-type: none"> ● Native script (conference publication) ● Creator(s) ● Year published ● Native script (Conference outlet) ● Conference Name ● Venue 	CPW
Conference Publications vs Journal Article	<ul style="list-style-type: none"> ● Native script ● Creator(s) ● Staff creator(s) 	CJW
Non-Traditional Research Output including Research Report for External body	<ul style="list-style-type: none"> ● Native script ● Year published ● Creator(s) ● Category ● Place of publication 	OCW, CPW, RRW, CEW, RRE

Submission Data Integrity Checking

During this phase of the ERA 2018 Submission process, the ARC undertakes further verification and integrity checking of the institution's data. If any errors are detected (such as duplicate outputs), the ARC will return the submission to the institution with a list of errors to be corrected.

Outlined below are some areas in which further verification and integrity checking may occur. The ARC will conduct a range of additional checks as it identifies issues. This list is a guide to assist institutions in ensuring the integrity of their ERA 2018 submissions.

General Checks

- Records where a business rule has generated a warning that the institution has ignored. The ARC will examine whether these warnings should have been ignored.
- Records with correctly encoded illegal and special characters (e.g. those referred to in section 2.5 of the *ERA-SEER 2018 Technical Specifications*).
- Existence and acceptable content of an explanatory statement for each two-digit FoR.

Researchers

- Apparent duplicate entries.
- Unusually low FTE for researchers with an Employment Status type '1'.
- Unusually high proportions of staff with FTE less than 0.4.

Research Income

- Valid structure of Category 1 research income elements.
- Unusual percentages of grant income within reference period when compared to the total amount received.

Research Outputs

- Records with apparently duplicated research outputs as initially identified by SEER as potential duplicates.
- Where a journal article appears in an extremely highly/lowly cited category.
- Possible duplication of research items within portfolios and other research outputs submitted for non-traditional research output types.
- Inconsistencies between 'year published' and 'year available' for research outputs of greater than 2 years.
- Possible duplicated items such as applied measures.
- Research outputs published in a non-English language have correctly provided additional information, such as language code and Roman script.
- The sensitive handling note provides enough information on how to handle the research output.

- The repository link is in the correct format.
- The repository link points to a supported file type.
- Institutions have provided the research statement for non-traditional research outputs flagged for ERA peer review.
- The cross-check of bibliographic information of indexed journal articles with bibliographic information received from the citation provider.
- Where an institution has submitted a book as a research output, no chapters from that same book have also been submitted.
- Institutions have used the reassignment exception appropriately.
- The movement of FoR codes assigned to a research output that is submitted in both ERA rounds.

Applied Measures

- The potential duplication of an applied measure.

Citation Profile

- Centile distributions that may not reflect the normal publishing pattern.