

330 **2.3 Overview of WS-Calendar in EMIX**

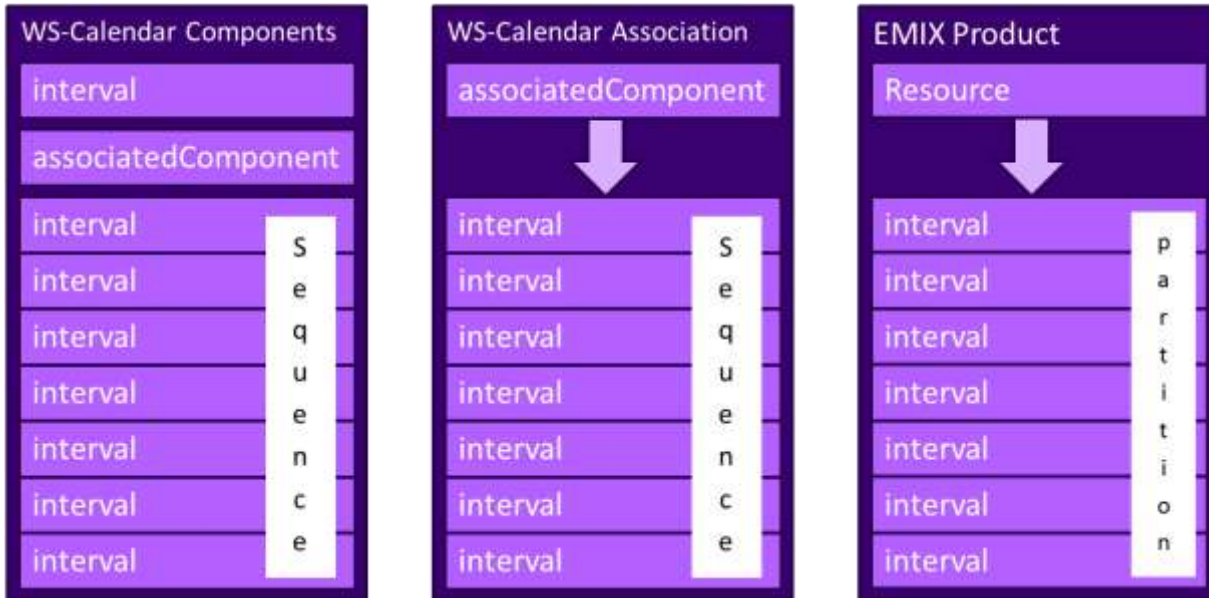
331 All expressions of time and interval in EMIX are based upon the OASIS specification WS-Calendar. WS-
 332 Calendar relies on the IETF iCalendar core calendar model [RFC 5545] and its associated objects.
 333 Specific profiles of [xCAL] information were defined in [WS-Calendar] defining Intervals, Sequences, and
 334 Partitions. The following overview is to provide a quick grounding in iCalendar and WS-Calendar. Please
 335 review to the actual standards for details.



336
 337 *Figure 1: iCalendar overview*

338 WS-Calendar as based upon iCalendar (RFC5545). iCalendar includes a lot of routing and transactional
 339 information as well as a components container. The components container holds one or more objects that
 340 are the events actually scheduled. Each of the iCalendar components can have a relationship with the
 341 other components.

342 WS-Calendar profiles the vtodo object into a component it names the Interval and defines temporal
 343 relationships between components. A set of intervals that have defined temporal relationships is referred
 344 to as a Sequence. A Sequence in which all intervals are consecutive is a Partition. Partitions are
 345 particularly useful for energy markets.



346
 347 *Figure 2: WS-Calendar and EMIX*

348 In WS-Calendar, each component, including each interval, includes an attachment; service information is
 349 encoded in the attachment. The associated component is in effect, a component with nothing but the
 350 attachment. Using the associated component, an attachment can be associated with an entire sequence.
 351 EMIX makes extensive use of this feature, to apply product definitions across slices of time.

352 In EMIX, the product definition, in the form of a Resource (described below) is associated with an entire
 353 WS-Calendar Sequence or Partition. As stated above. This description is conceptual, introduced to ease
 354 reading of this document. Refer to WS-Calendar for all normative information.