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The dynamical sampling problem is to recover an unknown signal from the space-time samples of an evolving process for which the signal is the initial state. In our recent study, we assume the samples are taken in continuous time at fixed locations. This problem can be reformulated as finding conditions on  $A \in B(\mathcal{H})$ ,  $G \subset \mathcal{H}$  and  $0 < L < \infty$  that make the iterated system  $\{A^t g : g \in G, t \in [0, L]\}$  complete, Bessel or a frame in the Hilbert space  $\mathcal{H}$ . Additionally, we will discuss the connection between a semi-continuous frame  $\{A^t g : g \in G, t \in [0, L]\}$  and its time-discretization  $\{A^{t_i} g\}_{g \in G, i \in I}$  with  $|I| < \infty$ . (Received January 31, 2018)